Western Industry

April
1958

Vol. XXIII, No. 4

MATERIAL HANDLING

cemaker Ideas • Show Preview • Buyers' Directory • M-H Manuals

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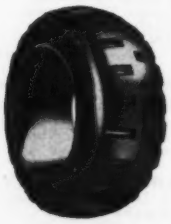

When the chips are down, profits are governed by operating costs. And management takes a dim view of purchasing policies when staple items . . . such as lift truck tires . . . require frequent replacement.

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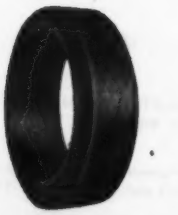

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KING PUBLICATION

APRIL, 1958

Vol. XXIII, No. 4

ANNUAL MATERIAL HANDLING and PACKAGING ISSUE

A four-part annual issue fact-packed with latest M-H data to save you time and money under Western plant operating conditions.

SECTION 1 — PACEMAKER IDEAS 40

Award-winning features on floor, middle level and overhead handling; special problems; and know-how articles on strapping, industrial lifts, cranes, loaders, unloaders, packaging, and other Western M-H operations.

SECTION 2 — SHOW PREVIEW 65

Here's your thumbnail guide to who's exhibiting what at the M-H Show in Los Angeles. Preview includes booth number, products displayed, special usefulness to Western plants, personnel and special features.

SECTION 3 — M-H MANUALS 80

Over 100 of today's best manuals on these material handling subjects: (1) conveyors; (2) hand trucks; (3) wheels and casters. All yours for the asking . . . use Reader Service Postcard, p. 143.

SECTION 4 — BUYERS' DIRECTORY 87

A 48-page directory listing manufacturer-distributor buying data of specific interest to Western plant operating executives. Includes classified section referring to manufacturer-distributor listings.

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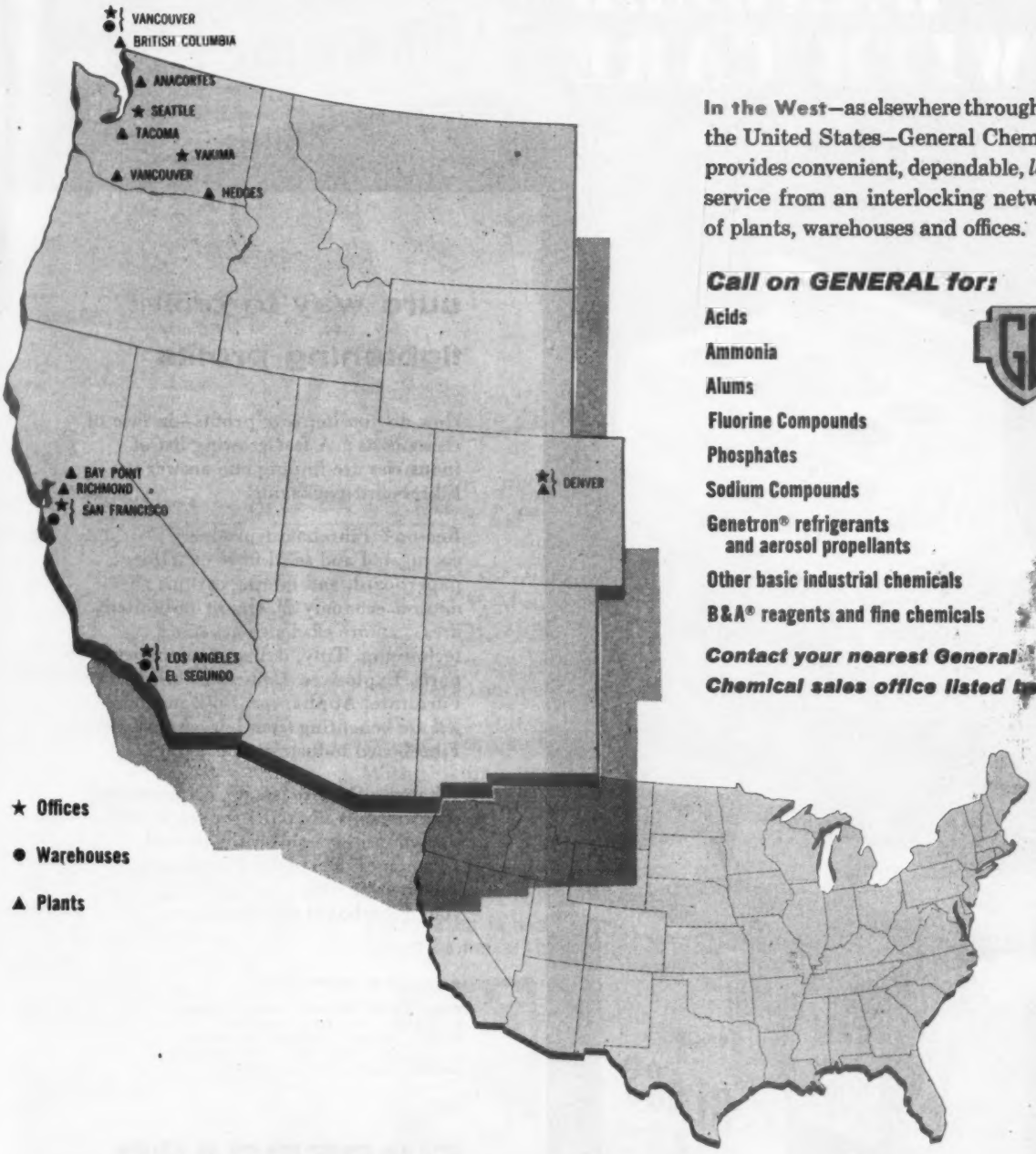

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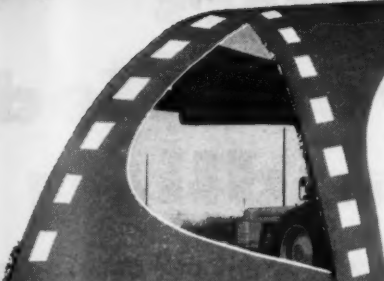

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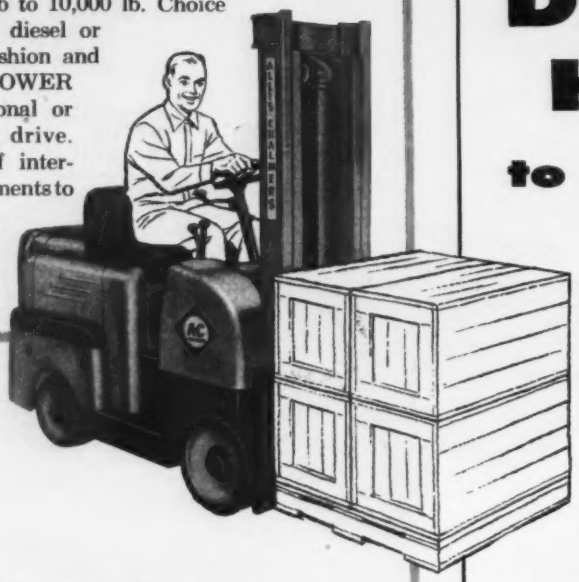

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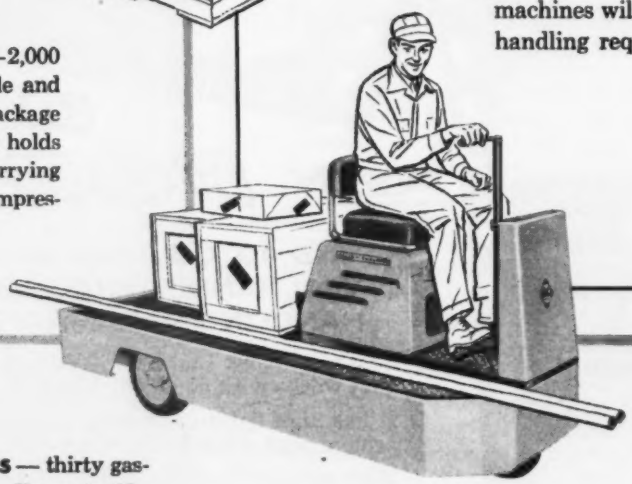

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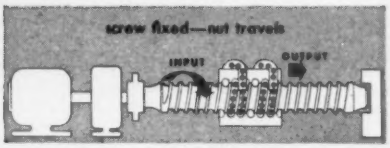
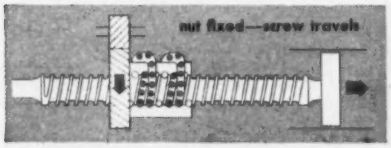


FORWARD: When rotary motion is applied to the screw, the b/b nut is driven along the axis of the screw, changing rotary motion to linear motion.



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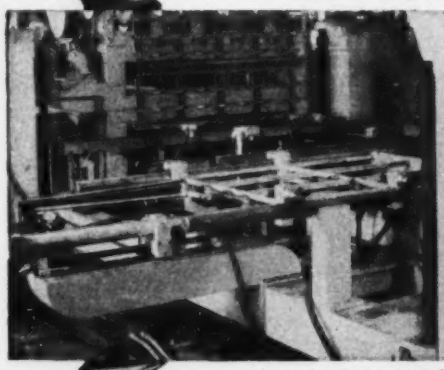
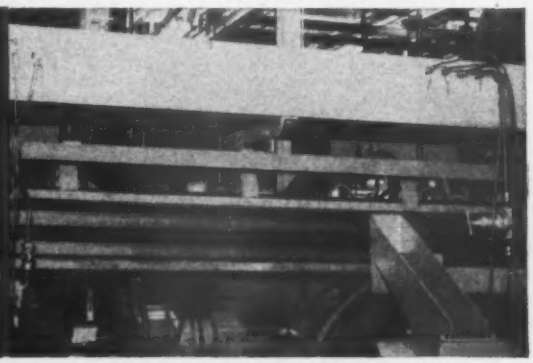


Automatic indexing device for stacking material. Saginaw b/b Screw used to raise and lower table.



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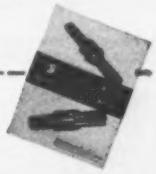

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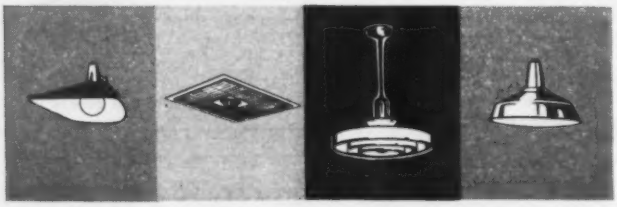

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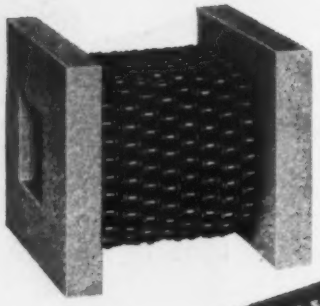

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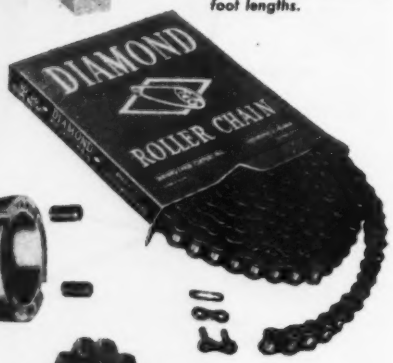

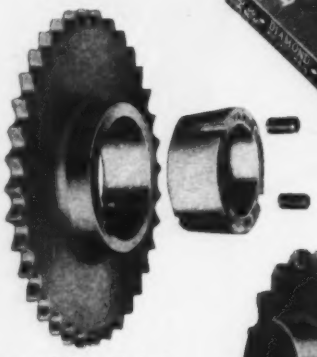

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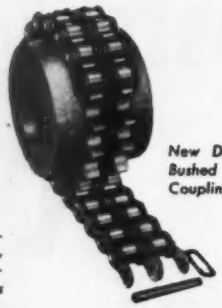

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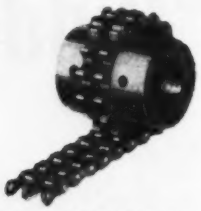

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WESTERN MEETING REPORTS

HERE'S YOUR PROGRAM for the biggest material handling methods conference of the year—held in the West.

It's the 1958 Western Material Handling Conference, scheduled for May 8 and 9 in Los Angeles . . . concurrently with the 2nd Western Material Handling Show. The event is sponsored by the Los Angeles chapter of the American Material Handling Society.

Theme of the conference is **"Down-to-earth practical approaches to material handling."** The conference will be presented in a special conference room on the grounds of the show, at the **Great Western Exhibit Center,** near the intersection of Atlantic Blvd. and the Santa Ana Freeway in Los Angeles.

Session one - Forenoon - May 8— Planning and space layout for material handling.

Moderator: Vincent Palmer, Vincent Palmer & Associates, Industrial Architects, Los Angeles.

Speakers: "Look-Ahead Planning of Your Building and Layout" —**Albert C. Martin, Jr.,** Partner, Albert C. Martin & Associates, Architects & Engineers, Los Angeles. "Best Techniques for Space Layout in Production" —**Robert G. Astle,** Director of Planning, McCulloch Motors Corp., Los Angeles. "Proven Methods for Material Handling Layout"—**C. W. Deister,** Superintendent, Los Angeles Parts Depot, Ford Motor Co.

Session two - Afternoon - May 8— Warehousing, operational techniques, and parts handling.

Moderator: Andrew J. Briggs, Service Building Superintendent, The May Co., Los Angeles.

Speakers: "Wise Approaches to Small Parts Handling and Issue" — **R. B. Parkhurst,** Vice President of Manufacturing, Hughes Aircraft Co., Culver City. "How to Make Storage Aids Work for You"—**C. Edgar Hawksley,** Material Handling Engineer, Ford Motor Co., Long Beach. "What Better Wholesale Operating Techniques Can Accomplish" — **Robert Thomas,** Vice President in charge of Warehousing and Transportation, Certified Grocers of California, Ltd., Los Angeles.

Session three - Forenoon - May 9 —Material handling equipment selection, application and maintenance.

Moderator: W. B. Semco, W. B. Semco & Associates, Industrial Consultants in Material Handling, Plant Layout, Warehousing and Order Systems, Los Angeles.

Speakers: "Techniques for Selecting Equipment You Really Need"—**James Van Dorn,** Assistant Material Manager, Northrop Div., Northrop Aircraft, Inc., Hawthorne. "Getting the Most Out of Equipment You Have" — **Graham Whitehurst,** Operating Manager, Southern Region, Zellerbach Paper Co., Los Angeles. "Best Ways to Maintain Equipment Operation" — **Augie Schulze,**

. . . continued on p. 20

DON'T FORGET THE EXHIBITS!

There'll be hundreds of displays of the latest material handling equipment that'll save you **time** and **money.**

You'll get what we mean when you turn to page 65 and take a look at our **Show Preview** section. It's your rundown of who's exhibiting . . . what they're showing . . . and what it can do for you.

And we hope you stop in and see **us** . . . in **booth 224.** We'll have some **time** and **money** savers for you, too. And we'd like you to get acquainted with the WESTERN INDUSTRY folks. See ya!

IN TRUE WESTERN STYLE . . .

a rodeo will be held during the Material Handling Show. But the "buckin' broncs" will be iron steeds—fork trucks.

You'll see ten sets of maneuvers — from the "zig-zag" to the "box car." And you can cheer the winner who will be crowned at about 5 p. m. on the final day.

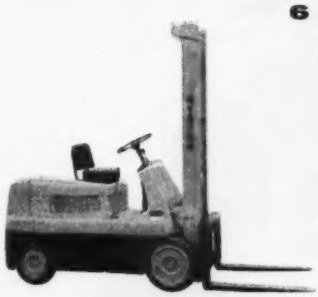
The rodeo will be only one of many extra events to be staged on the grounds of the show. So come prepared for a **rip-roarin' time!**

SPEAKERS, MOUNT YOUR PODIUMS . . . Pictured here are speakers and moderators for most of the conferences at the Western Material Handling Conference. Front row (l. to r.): **Robert G. Astle,** Director of Planning, McCulloch Motors Corp.; **Vincent Palmer,** Vincent Palmer & Assoc., Industrial Architects; **W. B. Semco,** Industrial Consultant in Material Handling and Plant Layout; **Robert J. Muth** (general conference chairman), Exide Div., Electric Storage Battery Co.; **Clyde Hinckley,** Warehouse Superintendent, The Market Basket; **Andrew J. Briggs,** Service Building Superintendent, The May Co.; and **Jack Urban,** General Manager, Los Angeles Cold Storage Co., and standing in the back row are (left to right) **C. W. Deister,** Superintendent, Los Angeles Parts Depot, Ford Motor Co.; **Albert C. Martin, Jr.,** Partner, Albert C. Martin & Assoc., Architects & Engineers; **James Van Dorn,** Assistant Materiel Manager, Northrop Div., Northrop Aircraft, Inc.; **Augie Schulze,** Supervisor of Transportation, Ralph's Grocery Co.; **Dale H. Dooley,** Manager of Service, Ducommun Metals & Supply Co.; **Graham Whitehurst,** Operating Manager, Southern Region, Zellerbach Paper Co.; and **C. Edgar Hawksley,** Material Handling Engineer, Ford Motor Co.

SEE YOUR HYSTER DEALER FOR A TRUCK "TAILORED" TO YOUR HANDLING JOBS

14 BASIC MODELS ON PNEUMATIC TIRES

20—1,000 and 2,000 lbs. capacity
30—3,000 lbs. capacity
40—4,000 lbs. capacity
50—5,000 lbs. capacity
60—6,000 lbs. capacity
70—7,000 lbs. capacity
80—8,000 lbs. capacity
100—10,000 lbs. capacity
120—12,000 lbs. capacity
150—15,000 lbs. capacity
160—16,000 lbs. capacity
180—18,000 lbs. capacity
200—20,000 lbs. capacity



6 BASIC MODELS ON CUSHION TIRES

Space Saver® Line

30—3,000 lbs. capacity
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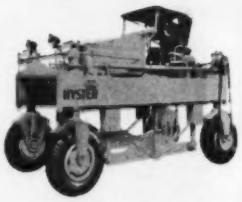
All Hyster trucks are human engineered by Henry Dreyfuss, industrial designer.

Monomast® upright gives maximum stability. Exclusive on Hyster trucks through 4,000 lbs. capacity.

All lift truck capacities shown are based on 24" load center



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with variety of arms.
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It's today's most efficiently designed industrial truck battery. Gives you more power in the same space. More power and life per dollar of cost. Boosts the work capacity of your trucks. So you can get more work done . . . work a longer shift. For a given capacity, the new Exide-Ironclad costs you less, yet lasts longer. It's your best battery buy. Only Exide offers it. Write for detailed bulletin. Exide-Industrial Division, The Electric Storage Battery Company, Philadelphia 2, Pa.

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TRADE MARK

saves time...money...space

CF&I Kargo-Pals are being used by more and more cost-conscious manufacturers. For they are learning that these new folding containers quickly pay for themselves in the money they save.

YOU SAVE SHIPPING AND HANDLING COSTS. With Kargo-Pals, 1- to 2-ton loads of materials or parts can be loaded and unloaded faster. Both shippers and receivers save time. Parts can be stored or moved to assembly points in the Kargo-Pal in which they were received. Or completely assembled units can be stored in Kargo-Pals for shipment.

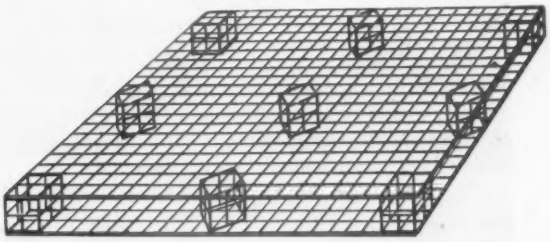
YOU SAVE STORAGE AND INVENTORY COSTS. Kargo-Pals can be stacked three or four high to save floor space. Contents are visible for easy inventory. Empty Kargo-Pals are quickly folded for compact storage.

YOU SAVE MAINTENANCE, REPLACEMENT COSTS. Kargo-Pals are tough and durable. They are made of 2" mesh, 2 gage (.2625") Welded Wire Fabric with a baked aluminum finish. They eliminate maintenance and replacement costs associated with outmoded containers.

Get the complete time- and money-saving story on Kargo-Pals. Call your CF&I representative or write 1080 19th Ave., Oakland 6, California.

Look for the Kargo-Pal display at the Western Material Handling Show, Los Angeles, May 8 to 10. CF&I Booths — 703 and 704.

MODIFIED KARGO-PALS CAN BE FURNISHED TO FULFILL YOUR SPECIFIC REQUIREMENTS.



Four-way entry flat pallet

5910

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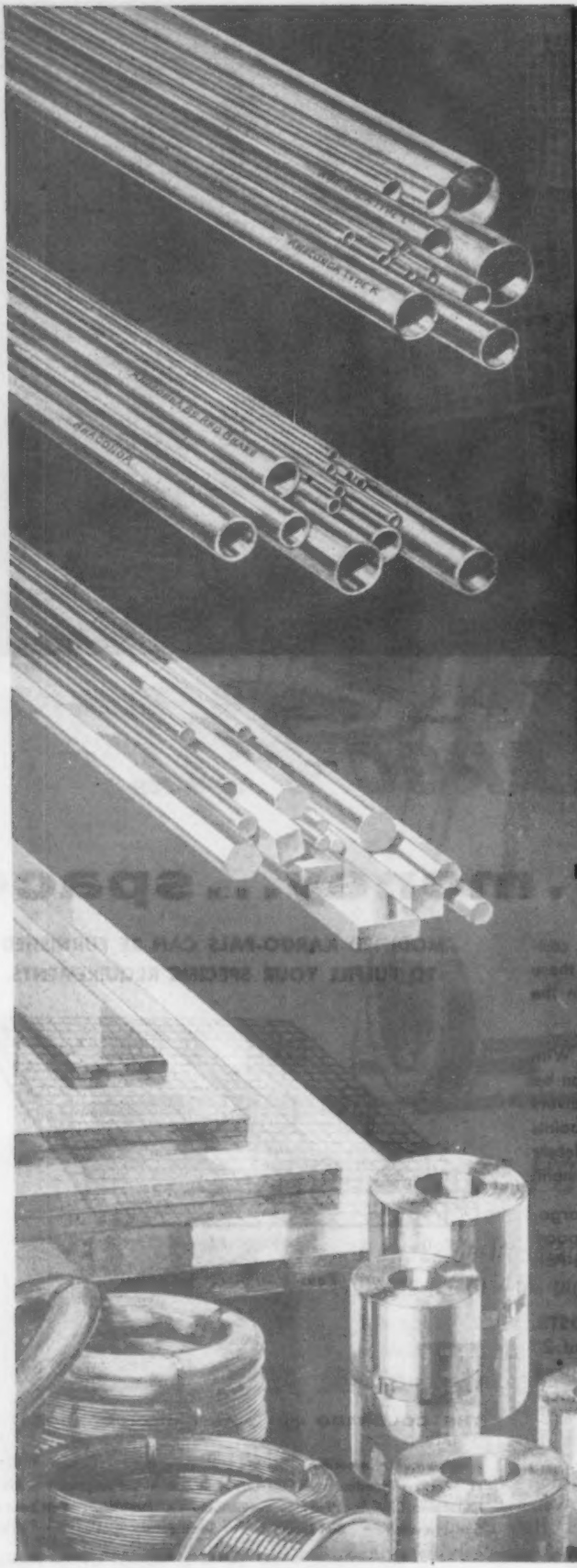

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BEHIND THIS ENTRANCE on Garfield Avenue in the Paramount district of Los Angeles spreads the great modern mill of The American Brass Company. It has nearly 400,000 square feet of manufacturing space and can produce 30,000,000 pounds a year of tube, sheet, strip, rod, drawn products, and special shapes in copper and copper base alloys. Its shipping bays were designed to handle incoming and outgoing railroad cars and trailer trucks with the greatest of ease. And it has the newest and most effective smoke control equipment, to keep it a good citizen in the community.

America's newest BRASS MILL— built to meet the needs of Western Industry

A study of the needs of Western industry and its purchasing patterns guided the design of the new, modern American Brass Company mill in Los Angeles.

Specializing in the mill products most commonly needed—offering the broadest line produced anywhere in the Pacific Coast area—the new mill will be able to give special attention to the minor variations necessary to tailor standard products to individual requirements. **Equipped for quality and speed.** Customers also get the benefit of The American Brass Company's recent nationwide modernization program. Only equipment that has proved itself in other mills as the best for producing uniform high quality by modern, high-speed methods is installed at Los Angeles. The most up-to-date, heavy-duty handling equipment available will further speed service. **Superior Order Service.** The sales offices of The American Brass Company in San Francisco and Seattle are connected with the mill by teletypewriter service—which connects all American Brass Company offices, warehouses, and mills in 36 locations across the country. Thus the full facilities of The American Brass Company are now literally at your fingertips—as near as your telephone.

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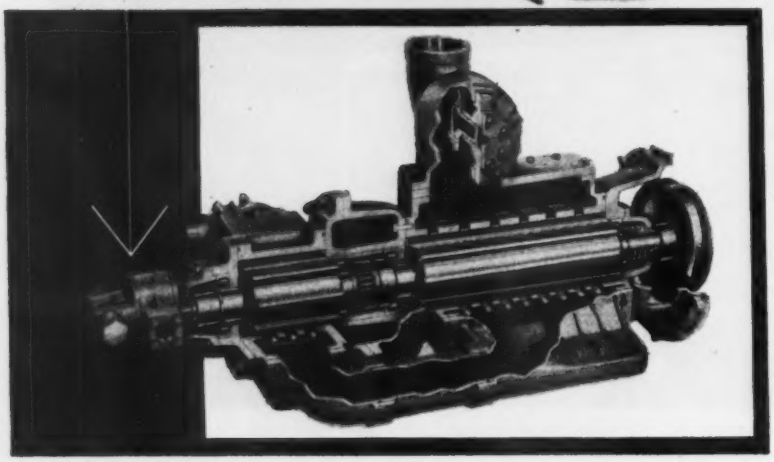
JAEGER DEPENDS ON
ROPER PUMPS
...so can you



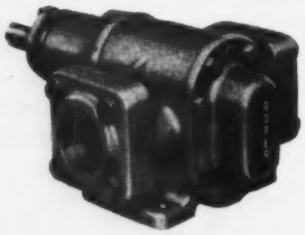
TWO STAGE ROTARY COMPRESSOR COOLED BY ITS OWN LUBRICATING OIL

Typical of Roper adaptability to heavy duty equipment is this installation on the Jaeger Roto Air-Plus, 2-stage rotary compressor. The pump sprays cooled, filtered oil onto the rotor and bearings in high and low compressor cylinders in order to lubricate all surfaces and seal against air leakage. The efficiency of the cooling system insures cool operation in ambient temperatures exceeding 100°. Arrangement of the system is such that oil-free air reaches the air service valve.

The Jaeger compressor has established service records of maintaining 100 lbs. constant pressure for 160 hours, without let-up — a tribute to the unit's dependability, and the Roper that helps cool it.

***For OEM... Specify* ROPER**

In this instance, the Series K pump is suited to the Jaeger application. This series is available in sizes ¾ to 50 GPM, pressures to 150 PSI. It is a rotary gear unit, with sizes 10 through 50 featuring the patented venturi suction and discharge principle for smooth, quiet operation.



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WESTERN MEETINGS

continued from page 14

Supervisor of Transportation, Ralph's Grocery Co., Los Angeles.

Session four - Afternoon - May 9 —How to organize and control receiving and shipping.

Moderator: Clyde Hinckley, Warehouse Superintendent, The Market Basket, Los Angeles.

Speakers: "Today's Techniques for Shipping and Receiving Department Organization"—**Jack Urban,** General Manager, Los Angeles Cold Storage Co. "Ways to Save in Receiving Department Operations"—**Dale H. Dooley,** Manager of Service, Ducommun Metals & Supply Co., Los Angeles. "Proven Best Techniques for Shipping Department Operations"—**Myron Moors,** Terminal Manager, California Motor Express, Ltd., Los Angeles.

SIPMHE Endorses Show

The Society of Industrial Packaging and Materials Handling Engineers has endorsed the Western Regional Material Handling Show. The Show, sponsored by the American Material Handling Society, is dedicated to the aims of the technical societies serving the material handling and packaging fields.

•

HERE'S YOUR ROUNDUP of technical sessions for the Western Air Conditioning, Heating, Ventilating and Refrigeration Exhibit at the Shrine Exposition Hall in Los Angeles, May 7-11.

General technical sessions on the opening day, May 7th, will come under the chairmanship of the Association president, **William P. Tennity,** and will include:

"Large Absorption Systems for Air Conditioning" — **Robert H. Phillips,** Carrier Corporation, Los Angeles.

"Results of Some studies on Air Pollution"—**Dr. Alexander Goetz,** California Institute of Technology, Pasadena, Calif.

"Low and High Temperature Environment Chambers"—**Stuart Giles,** Bemco, Inc., No. Hollywood, Calif.

On Thursday, May 8, **Frank M. Neal** of Minneapolis - Honeywell Regulator Co., Minneapolis, Minn., will moderate a symposium on "School House Environmental

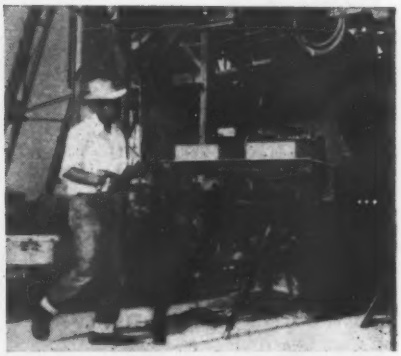
STANDARD ENGINEER'S FIELD REPORT

PRODUCT CHEVRON* INDUSTRIAL GREASE

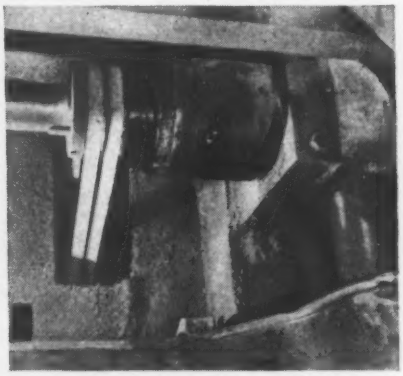
FIRM CURTISS-MERRILL CONCRETE PRODUCTS, INC. Whittier, California

Chevron* Grease Lengthens Bearing Life 200%

"**This eccentric bearing** from our cement block machine used to fail in less than three months," says Gene Brock (above), foreman of Curtiss-Merrill Concrete Products Inc., "but since we changed to Chevron Industrial Grease these bearings last up to nine months! A set of bearings costs $250, and replacing them means a four-hour shutdown, so Chevron Industrial Grease has brought us real savings."



High Output of machine keeps operator on the run. In 8 hours machine produces 5,000 8 x 8 x 16 blocks. Bearings are lubricated with Chevron Industrial Grease each shift.



Eccentric Shaft turns at 3,000 rpm to provide 1/16" vibration of molds. Chevron Industrial Grease protects bearings despite 400° F. temperature, dust and grit.

Why Chevron* Industrial Grease provides Superior Lubrication

- Mixes with any grease
- Melting point, 500° F. plus
- Unusual water resistance
- Extreme work stability
- Top wear-prevention qualities
- Rust protective
- Non-corrosive
- Pumpable over wide temperature range.

*The Chevron Brand covers the line of industrial products formerly sold under the Calol name. This is a name change only. The high quality and specifications remain the same.

CHEVRON Industrial Lubricants

For More Information on this product, contact your Standard Engineer or Representative, or write Standard Oil Company of California, 225 Bush Street, San Francisco 20, California.

TRADEMARK "CHEVRON" AND DESIGN REG. U.S. PAT. OFF.

STANDARD OIL COMPANY OF CALIFORNIA

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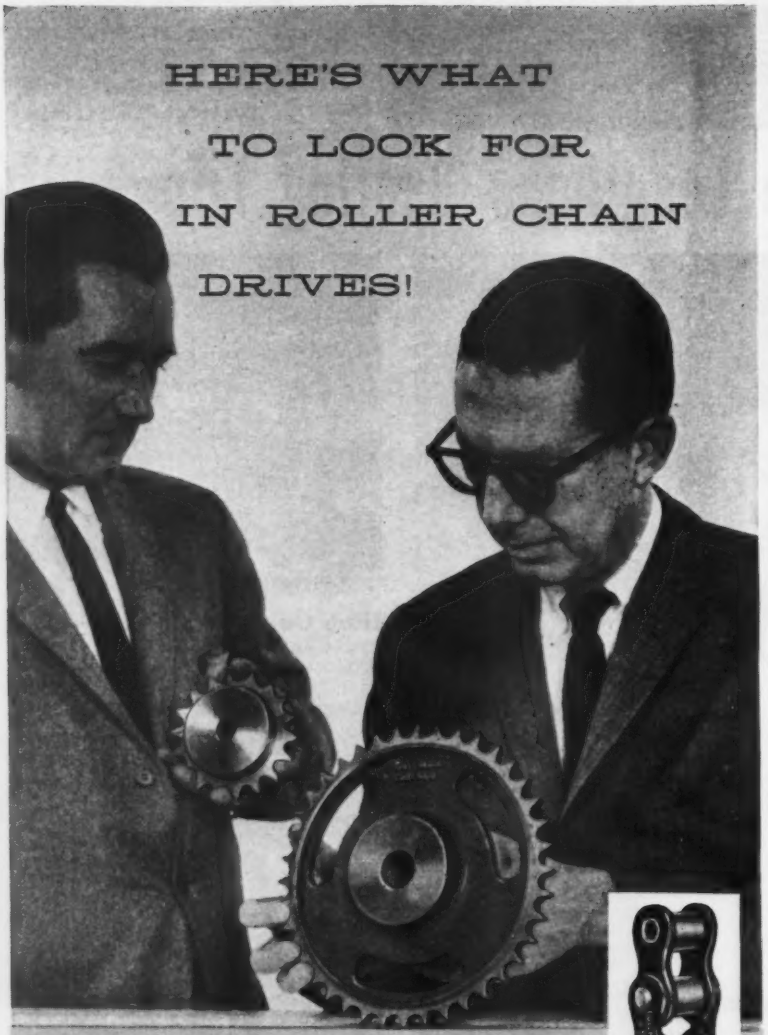

When you're in the market for roller chain drives—for power transmission, conveying or timing—be certain you select quality products, manufactured to exacting standards, to provide you with quiet, efficient and economical operation.

You are assured of these basic features when you buy Cullman products—whether it's from our stock of over 100,000 sprockets or custom made to your specifications.

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WESTERN MEETINGS

continued from page 20

Control." Individual subjects covered will be:

"Steam and Hot Water Systems"—**C. D. Walz,** Consulting Engineer, Los Angeles.

"Radiant Heating Systems"—**Alvin L. Ottum,** Year-Round Comfort, Inc., Los Angeles.

"Heating, Ventilating and Cooling Systems"—**Russell C. Taylor,** American Air Filter, Inc.

"Central Air Systems" — **Wallace L. Donley,** Consulting Engineer, Los Angeles.

"Unitized Direct Fired Systems".

Speaker not yet announced

"As the Architect Sees It"—**Arthur Rendon, A.I.A.,** Kistner, Wright and Wright, Los Angeles.

In the evening session on May 8, **Professor Norman Sharpe** of California State Polytechnic College will moderate a symposium on "Air Cleaning with Reference to Particle Size, Filter Testing and Smog Control." Individual subjects to be included in this session will be covered by a panel consisting of:

Sydney F. Duncan, Farr Company, Los Angeles; **H. L. Barnebey,** Barnebey-Cheney Co., Columbus, Ohio; **J. S. Earhart,** Preferred Equipment, Inc., Los Angeles; **James W. May,** American Air Filter Co., Louisville, Ky.; **Paul W. Aitkenhead,** Electro-Air Cleaner Co., Inc., McKees Rocks, Pa.

On Friday, May 9, **Leo Hungerford** of Utilility Appliance Corp., Los Angeles, will moderate a symposium on "Air Conditioning Existing Buildings." Various aspects of this major industry problem will be covered in individual sessions as follows:

"The Owner's Problems"—**John Williams,** R. A. Rowan Co., Los Angeles.

"The Mechanical Engineers' Problems" — **Cary B. Gamble,** Consulting Engineer, New Orleans, La.

"The Structural Engineers Problems".

Speaker to be selected

"The Contractors' Problems"—**Henry Ulovec,** Mehring and Hanson Co., Los Angeles.

"The Architects' Problems".

Speaker to be announced

General technical sessions that

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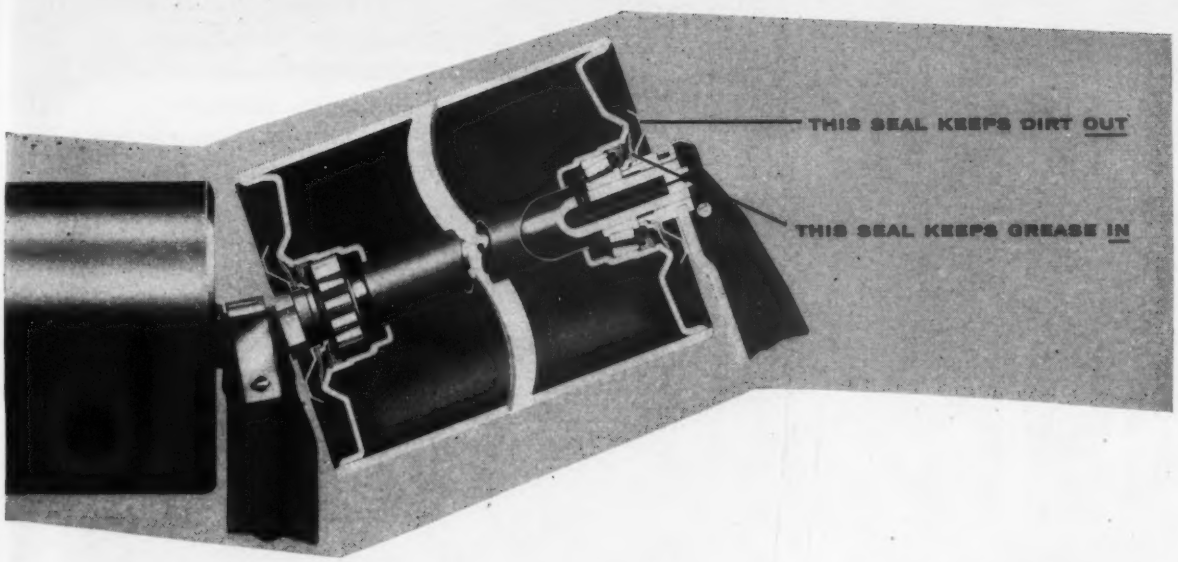
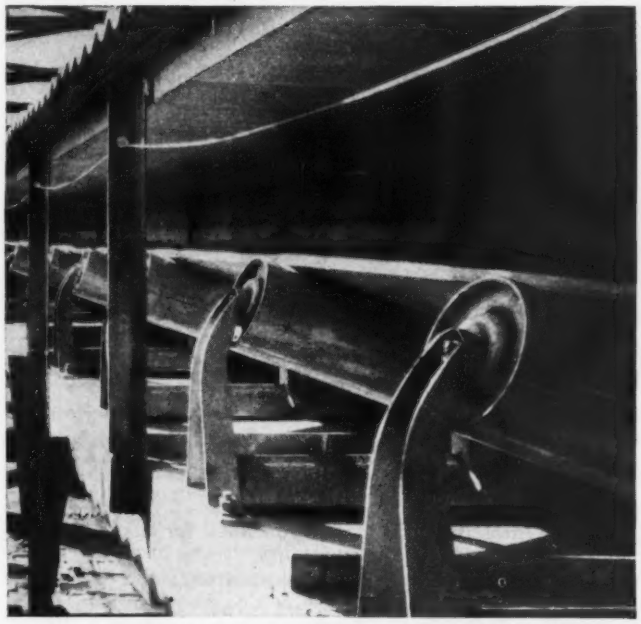


JEFFREY PERMASEAL® IDLERS

The best built idlers for the toughest jobs



Belt conveyor equipped with Jeffrey PERMASEAL® Belt Idlers handling coal at a power generating station.

Grease can't get out to foul conveyor belts; dirt can't get in to damage bearings. Diaphragm double seals protect both ends of every roller. That's why Jeffrey Permaseal idlers give extra-long service with an absolute minimum of maintenance.

Greater dependability and longer life offset the slightly higher initial cost for Permaseal idlers. Pay off quickly on the tough jobs. Pay off, too, through less downtime, fewer replacements and lower upkeep on all belt conveyors.

Your materials-handling supervisor should have the new Catalog 909, Jeffrey Belt Conveyors. It has valuable design and descriptive data on these products. For a copy, write The Jeffrey Manufacturing Company, 920 North Fourth Street, Columbus 16, Ohio.

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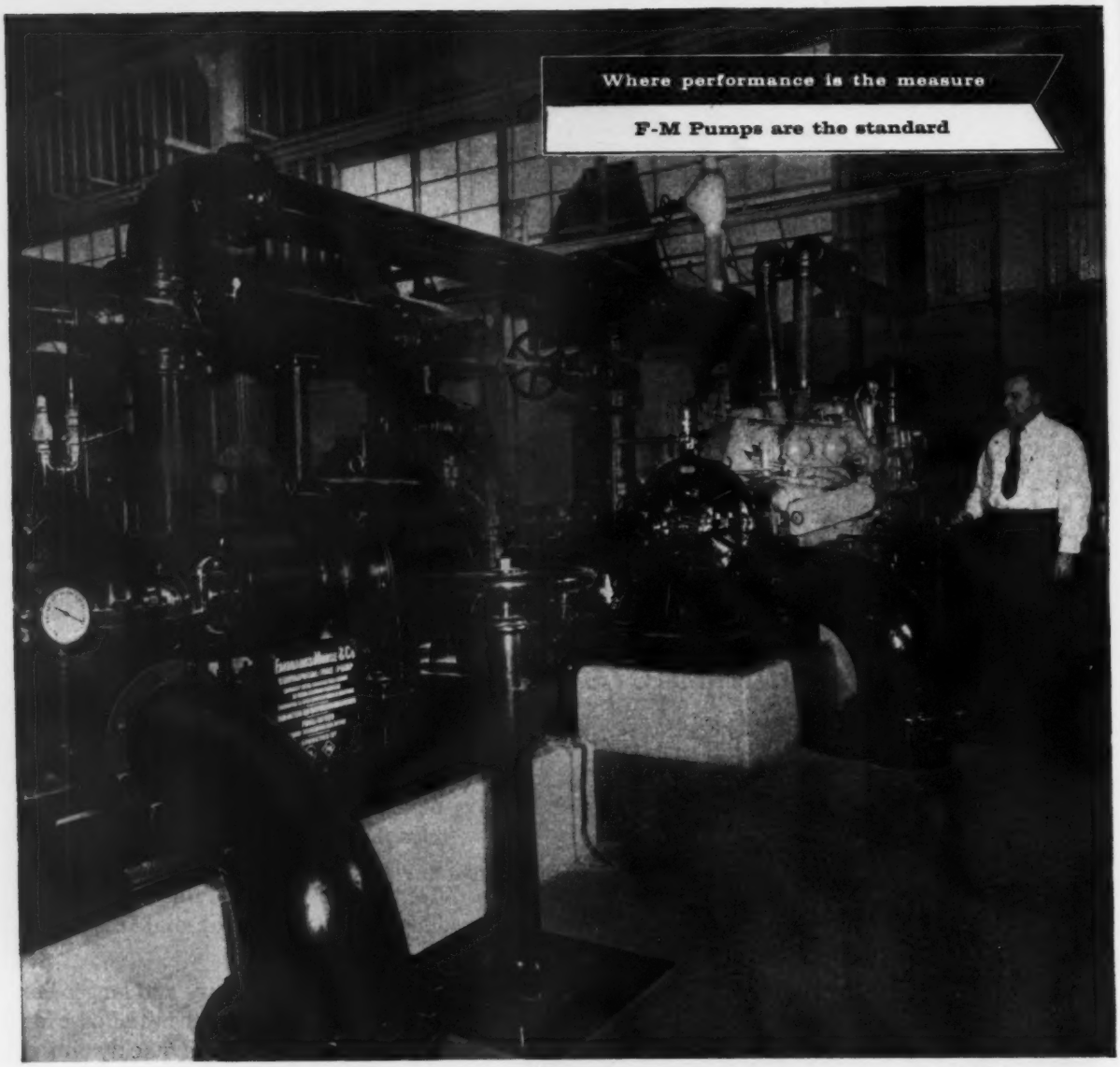

Mr. George Biggar, plant engineer of Ford Motor Company assembly plant at Mahwah, N. J., checks Fairbanks-Morse fire pumps (1500 gpm. motor-driven pump in foreground, 2500 gpm. diesel-driven pump near Mr. Biggar).

Ford guards against fire at giant new plant

To protect one of the world's largest auto assembly plants against fire, Ford Motor Company depends on these two Fairbanks-Morse fire pumps. As the heart of an extensive system, the two F-M pumps provide defense in depth, one pump backstopping the other.

This installation is typical of the great care and planning by modern industry to prevent the catastrophe of fire. Call in your F-M Sales Engineer for expert assistance in pump specification. As builder of the world's greatest variety of hydraulic combinations, Fairbanks-Morse will provide the exact type, exact size pump you need for maximum dependability.

For information write Fairbanks, Morse & Co., Dept. WI-4, 600 S. Michigan Ave., Chicago 5, Ill.

Ask for F-M Fire Pump Bulletins 5814F (horizontal) and 6920F (vertical).

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Readily Available Westinghouse Fans will help you increase production...employee efficiency!

Whatever your air handling problem . . . smoke, fumes, vapor, dust, wood shavings, granular material or ventilating . . . these Westinghouse fans are designed to handle or remove them . . . efficiently and economically.

INDUSTRIAL FANS (Steel Casing) . . . high efficiency for general Air Handling; fume and dust removal; 11 sizes, each with 3 types of wheel for specific applications. Wheel diameters 19″ to 64″; inlet diameters 11″ to 37″.

INDUSTRIAL FANS (Cast-Iron Casing) . . . ruggedly built, corrosion resisting. For low-volume fume or dust removal, materials conveying, industrial drying and cooling. In 10 sizes, each with 3 types of wheel for specific applications. Wheel diameters 8″ to 34″; inlet diameters 4½″ to 18″.

VENTILATING SETS (Direct-Connected) . . . compact, efficient, ready-to-run. Especially suited for small ventilating installations. Cleanable radial blade wheel minimizes problem of handling airborne dirt and grease. Six sizes. Wheel diameters 6″ to 15″; inlet diameters 6″ to 14″.

VENTILATING SETS (V-Belt Driven) . . . self-contained. Install indoors or outdoors in a wide variety of heating, ventilating or air conditioning applications. Twelve sizes. Wheel diameters 9″ to 30″; inlet diameters 10″ to 32⅞″.

PROMPT SHIPMENT . . . these fans are available for immediate shipment from our Pacific Coast Plant—Berkeley, California.

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YOU CAN BE *SURE*... IF IT'S Westinghouse

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Moving 30-ton loads 2000 feet a minute may seem like a "dream" of the future but it's happening right now! It's being done by giant Gerlinger straddle carriers making numerous trips per day and moving *millions of tons a year* for an Eastern steelmill. It's also being done by heavy-duty Gerlinger lift trucks . . . transporting mammoth beams, bulky logs, tremendous pallets of products by the hundreds . . . in one quick, cost-saving trip! Are your increasing demands requiring bigger loads and faster handling? Look to Towomotor-Gerlinger—where "tomorrow's plans" are no longer blueprints, but *realities*. The answer is *here*.

Leaders for 39 years in building Fork Lift Trucks, Tractors and Carriers

TOWMOTOR THE ONE MAN GANG **-GERLINGER***

Towmotor-Gerlinger meets Tomorrow's Handling Needs Today!

*Gerlinger Carrier Co., Dallas, Oregon, is a subsidiary of Towmotor Corporation, Cleveland 10, Ohio

Marvelous
Manifestation of
Matchless Muscularity

HUMAN DUMB-BELL
USED IN HERCULEAN
ONE-HAND LIFT

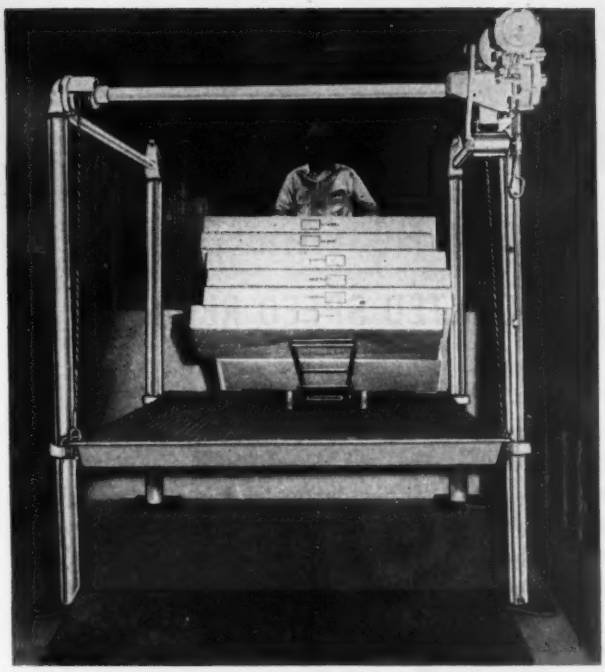
Amazing!

Colossal!

This Strong Man Stunt was a Vaudeville Act 50 Years Ago

Today, any worker is a Hercules with a Globe Lift

Heavy Lifting, Quick Loading, Easy Portability are features of GLOBE ELECTRO-LOADER

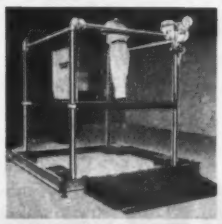


With one hand on the control of a Globe Electro-Loader, a workman can lift, load or unload heavy cargo quickly and without manual effort. Because no special foundation is required, this lift can be installed anywhere . . . in shipping and receiving departments . . . beside conveyors and machines . . . alongside of raised floors . . . indoors or outside . . . upper floors . . . temporary locations . . . wherever rugged materials handling tasks are performed. Easy to install, can be quickly relocated.

For rigid permanent use, the Electro-Loader can be bolt-anchored to the floor or, it can be equipped with casters for fast movement anywhere in the plant. Platform is of checkered steel plate reinforced with steel beams to stand up under heavy impact loads of hand or power-operated trucks. A wedge-shaped ramp provides a gentle upward slope for easy roll-over or, the lift may be recessed for flush platform loading.

Lifting power for the Electro-Loader is supplied by a weather-protected electric motor operating a simple cable mechanism. Adjustable automatic top and bottom limit tops, a slack cable shut off, centrifugal governor and safety brake assure accurate control, smooth operation and complete safety throughout the entire lifting cycle.

GLOBE pacific®
GLOBE PACIFIC HOIST COMPANY
DIVISION OF GLOBE HOIST COMPANY
PLANTS: DES MOINES—PHILADELPHIA—LONG BEACH, CAL.



GLOBE PACIFIC HOIST COMPANY
1461 CANAL AVENUE
LONG BEACH 13, CALIFORNIA

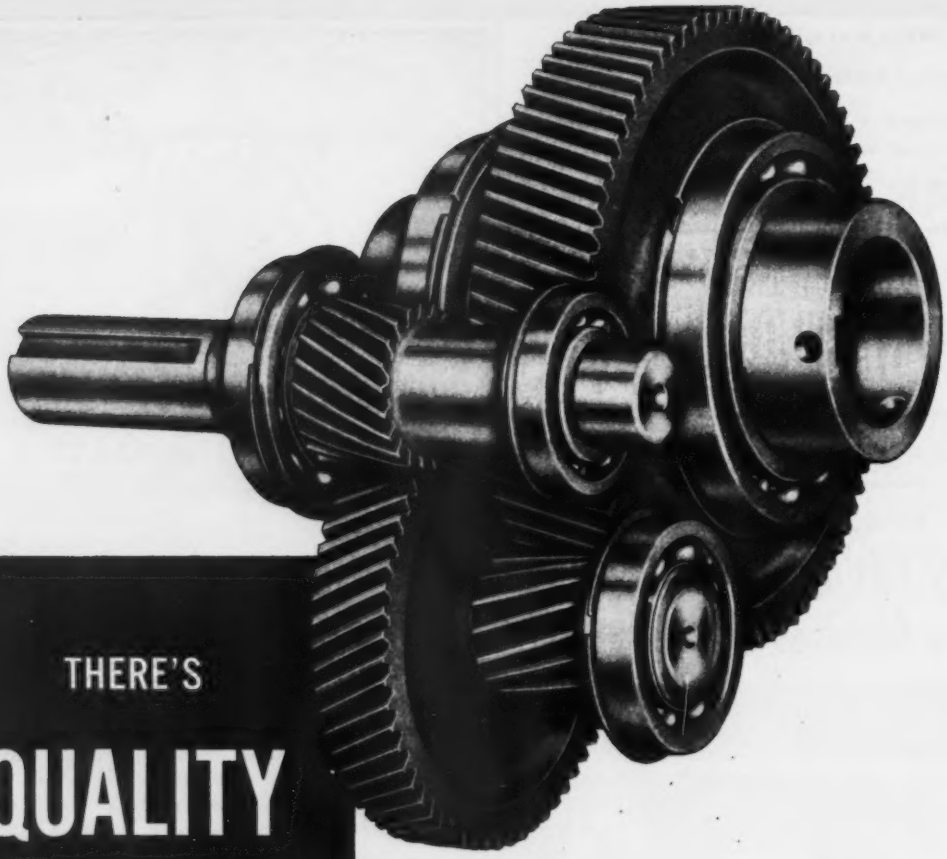
GLOBE PACIFIC HOIST COMPANY WI-915P EL
1461 Canal Avenue
Long Beach 13, California

Please send me detailed information on Globe Electro-Loaders for .....
(describe application intended)

NAME .....
COMPANY .....
ADDRESS .....
CITY ..... STATE .....

. . . for more details, circle No. 22 on Reader Service Postcard
See listing in Directory Section

← For more details, adv. opp. pg., circle No. 21 on Reader Service Postcard
See listing in Directory Section

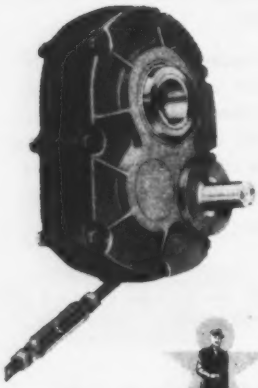


THERE'S

QUALITY

IN TORQUE-ARM

...AMERICA'S MOST WIDELY USED SHAFT-MOUNTED SPEED REDUCER



Extreme ruggedness and top quality are built into every detail of the Dodge Torque-Arm Speed Reducer—from the specially heat treated helical steel gears to the corrosion resistant semisteel housing. Broad demand has made it necessary to add sizes until today Torque-Arm is America's most complete (and most widely used) line of shaft-mounted speed reducers. Capacities range from 1 to 100 hp; output speeds from 12 to 378 rpm.

Torque-Arm is mounted on the driven shaft, in any vertical or horizontal position. It is anchored by the torque-arm fastened to any fixed object. No need for foundation, flexible coupling, sliding base. No lining up difficulties. The unit is driven through any V-belt drive. Savings up to 1/3 are possible and Torque-Arm's efficiency is high. It delivers 97% efficiency in double reduction models; and almost 99% in single!

Ask you local Dodge Distributor—or write us for bulletin.

DODGE MANUFACTURING CORPORATION
6600 Union Street, Mishawaka, Indiana

CALL THE TRANSMISSIONEER
—your local Dodge Distributor. Factory trained by Dodge, he can give you valuable help on new, cost-saving methods. Look in the white pages of your telephone directory for "Dodge Transmissioneer."

DODGE
of Mishawaka, Ind.

... for more details, circle No. 23 on Reader Service Postcard

10 reasons why the Signode SFC is the savingest tool for strapping

$ With the SFC, one handle does the tensioning and the sealing. That's why one hand is free to align the straps and move the package. The SFC is the only one-hand seal feed tool. But that's not all.

$ You can put a cartridge of 50 Signode seals into the SFC magazine in a few seconds...as quickly as placing a loose seal on a strap. No seals wasted.

$ The SFC is the simplest of all seal feed tools to learn about and to operate. Even our advertising agency man learned to use it in about 7 minutes.

$ The SFC will not operate unless the strap is properly aligned. In most seal feed tools misalignment wastes strap. It can't happen with the SFC.

$ Plenty of power...easily. The smooth-working SFC has a good long handle... straps directly from the dispenser. It's as good on big packages as on small ones.

$ The SFC weighs only 6½ pounds, loaded. It's the lightest seal feed tool on the market, and the most versatile. You don't have to mount it in a fixed position. Take it anywhere in the plant.

$ Light weight lets you use the SFC as easily on the sides of the package as on the top. (Anybody know of an overhead strapping application?)

$ The short base and centered balance of the SFC makes it easy to use on small packages, on cleats or other narrow surfaces, or on the edge of a box.

$ The SFC can be used with the strap dispenser either in front or behind the operator—whichever fits your layout best.

$ With all its advantages, the SFC is the *lowest cost seal feed tool* on the market.

First in steel strapping

You will like the SFC. It is a rugged, high-quality tool. See and try it. No obligation. Call the Signode man near you, or write:

SIGNODE STEEL STRAPPING CO.

2615 North Western Avenue, Chicago 47, Illinois

Loveridge Road, Pittsburg, California • 659 East Gage Avenue, Los Angeles 1
1519 North West Irving Street, Portland 9 • 617 Paulsen Building, Spokane
2 Hanford Street, Seattle

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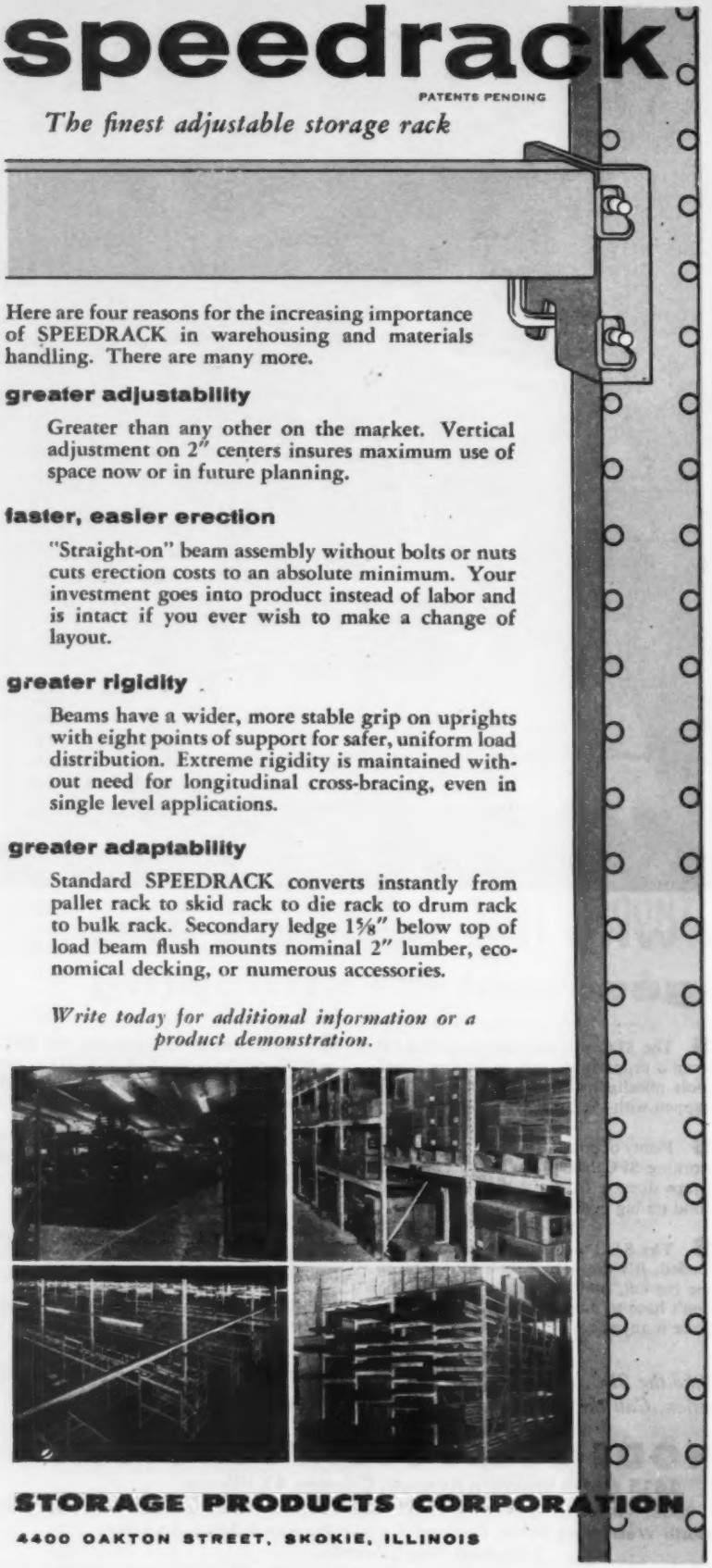
See listing in Directory Section

speedrack

PATENTS PENDING

The finest adjustable storage rack



Here are four reasons for the increasing importance of SPEEDRACK in warehousing and materials handling. There are many more.

greater adjustability

Greater than any other on the market. Vertical adjustment on 2" centers insures maximum use of space now or in future planning.

faster, easier erection

"Straight-on" beam assembly without bolts or nuts cuts erection costs to an absolute minimum. Your investment goes into product instead of labor and is intact if you ever wish to make a change of layout.

greater rigidity

Beams have a wider, more stable grip on uprights with eight points of support for safer, uniform load distribution. Extreme rigidity is maintained without need for longitudinal cross-bracing, even in single level applications.

greater adaptability

Standard SPEEDRACK converts instantly from pallet rack to skid rack to die rack to drum rack to bulk rack. Secondary ledge 1⅝" below top of load beam flush mounts nominal 2" lumber, economical decking, or numerous accessories.

Write today for additional information or a product demonstration.

STORAGE PRODUCTS CORPORATION

4400 OAKTON STREET, SKOKIE, ILLINOIS

....for more details, circle No. 25 on Reader Service Postcard

WESTERN MEETINGS

continued from page 22

evening will be under the chairmanship of **David Reznick,** Air Fan Engineering Co., Los Angeles, and will include:

"High Temperature Hot Water Systems"—**Arthur J. Hess,** Heat & Power Equipment Co., Los Angeles.

"Water Conservation"—**Ralph Westcott,** Consulting Engineer, Pasadena, Calif.

"Air Conditioning Existing Residences"—**George Frymeyer,** Carrier Corporation, Monrovia, Calif.

"Residential Heat Pumps"—**Jim Kercheval,** General Air Conditioning Corp., Los Angeles.

Final sessions on Saturday, May 10, will include a panel discussion on Market Refrigeration. **Peter H. Askew** of Thermal Products, Inc., will serve as moderator of a panel of four experts in the particular field. Panel members have not yet been selected.

A concurrent session on Codes and Standards will be moderated by **Herbert B. Nottage,** Lockheed Aircraft, Inc., Burbank, Calif.

Don't forget the exhibits. We'll be in booth 113 . . . and we've got something for you!

•

FOR THE FIRST TIME in the Rocky Mountain region, a seminar devoted to material handling techniques, is scheduled to be held Saturday, May 10, at the Park Lane Hotel, Denver.

The clinic will be sponsored by the Denver chapter of the American Material Handling Society (AMHS).

Featured speakers on the panel of the seminar include: **Frank August,** chief industrial engineer, Colorado Fuel & Iron Corp.; **Bruno Ghelardini,** a general foreman, Caterpillar Tractor Co.; **Thomas Higgins,** industrial engineer, Mountain States Employers Council; and **E. C. Mitchell,** superintendent of cargo service, United Air Lines.

The program is being organized under the general chairmanship of **Vern Bybee,** director of material handling, Gates Rubber Co.

Everyone interested in material handling problems is invited to the full-day seminar. Registration forms will be mailed promptly if you send a postcard to **P. O. Box 5047, Terminal Annex, Denver 17, Colo.**

The poured concrete floor of the tunnel is approximately 10 feet below the tracks.

Safe Underpass for Southern Pacific Workers Installed with No Interruption to Traffic

At Englewood Yard, Houston, Texas, clerks and yardmen for the Southern Pacific Railroad now walk to work without crossing busy tracks.

An elliptical-shaped tunnel of Armco Liner Plates takes them underground from a bus stop on one edge of the yard to locker rooms. The well-lighted, 262-foot-long, 94-inch-diameter structure goes under 15 tracks. Tunneling operations were carried on without interrupting Southern Pacific rail service.

With lightweight Armco Liner Plates, one man can carry, hold and bolt a section into place. All assembly is done from inside.

* * * * *

Armco MELT-PLATE® Pipes provide attractive, low-cost exits.

ARMCO DRAINAGE & METAL PRODUCTS, INC.
CALCO AND NORTH PACIFIC DIVISIONS
Berkley • Los Angeles • Portland • Seattle • Spokane

MAIL THE COUPON TODAY FOR COMPLETE INFORMATION.

ARMCO DRAINAGE & METAL PRODUCTS, INC.
2180 Milvia St., Berkeley, Calif.
P.O. Box 751 Federal Station, Portland, Oregon
Send me data on Armco Liner Plate for tunnels

Name_____
Company_____
Street_____
City_____ Zone____ State____

ARMCO LINER PLATES

...for more details, circle No. 26 on Reader Service Postcard

FOR MEN ON THE MOVE... in a hurry

TOLEDO®

DROP HEAD RATCHET TOOLS

Furnished in three sizes, from 1/8" to 2" capacity, the TOLEDO Drop Head Pipe Threader offers light, handy threaders for all-round work. Ideal for close corners, tiresome overhead threading, wherever time means money. Thousands of these handy threading tools attest to their value and popularity. Dies are changed in seconds by simply pulling a pawl—the die drops out. Slip in another and you are ready to go. If you haven't tried the TOLEDO Ratchet Threader, see one at your supply house . . . next trip.

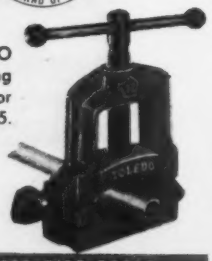
THE TOLEDO PIPE THREADING MACHINE CO.
Toledo 4, Ohio

INDUSTRIAL DISTRIBUTORS — THE RIGHT HAND OF PRODUCTION

BUILT RIGHT—PRICED RIGHT

No. 22 VISE

For quality at a low, low price the TOLEDO 22 is best. Solid, dependable, timesaving . . . its Acme threads insure long wear. For a more positive grip, use the TOLEDO 25. Its five jaws eliminate any torque slippage. 1/8" to 4½" capacity. Both are typical TOLEDO quality tools.



BUILDERS OF THE WORLD'S FINEST PIPE TOOLS

TOLEDO®

PIPE THREADERS • PIPE WRENCHES • PIPE MACHINES

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LABOR NOTES for the WEST

PACIFIC STATES LEAD in manufacturing growth. According to a recent publication put out by the U.S. Department of Commerce, "Long Term Regional Trends in Manufacturing Growth: 1899-1955", the Pacific States enjoyed a rise of 900% in manufacturing employment during this 54 year-period. The report also shows trends in population and manufacturing employment in the entire United States. Copies of the report can be obtained from the Department of Commerce, 555 Battery St., San Francisco 11, Calif. Price 10¢ each.

•

HUGHES AIRCRAFT TO EMPLOY 3,500 more in 1958. The company announces plans to add 2,000 scientists and 1,500 professional and technical workers. The categories of engineers and scientists sought include: Systems analysts with Ph.D. degrees; digital computer engineers; field engineers; circuit design engineers; atom physicists, and nuclear electronics engineers.

•

"THE OUTLOOK FOR INDUSTRIAL RELATIONS & Personnel Management" is covered in Management Report No. 249 published recently by the California Personnel Management Association. The report (17 pp.) covers twelve questions on the outlook in industrial relations for 201 company personnel executives. Copies ($1 each) can be obtained from the California Personnel Management Assn., 2180 Milvia St., Berkeley, Calif.

•

EIGHTY-ONE EMPLOYEES of Beckman Instruments, Inc., whose ideas for improving manufacturing methods and procedures will save the company nearly $40,000 a year, were honored at a dinner on March 6.

Diplomas for completion of three-months work simplification courses and prizes to working committees whose job refinements were rated highest in terms of dollar savings, degree of member participation and application of work simplification principles, were awarded employees from Beckman plants at Fullerton and Anaheim.

•

WHERE EAST IS WEST—This scene is just 25 ft. from the main production line in the Vendo Co., Kansas City. The idea is to lend atmosphere to the food vending machines. And the company reports the Western set sure hikes spirits, pardner, and makes the victuals right tasty!

LOW COST DIFFERENCE BETWEEN

SLIPPING FEAR

SAFETY

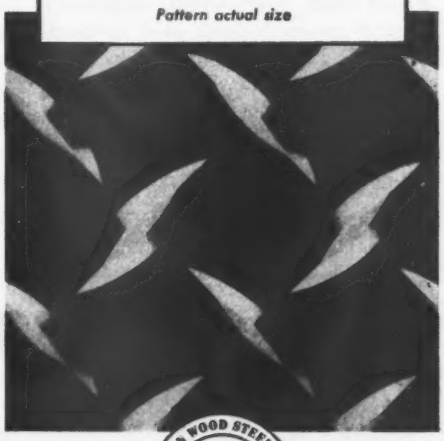
Eliminate high-cost accidents with low-cost SUPER-DIAMOND. Yes, A.W. SUPER-DIAMOND safety floor plate replaces DANGER with SAFETY wherever hazardous slipping conditions occur. Here's why!

- Raised steel, diamond-shaped figures give *maximum slip-skid resistance from all angles of approach.*
- Tough rolled steel construction lasts the life of the installation.
- Non-directional pattern—no matching problems—minimum waste.
- Easily fabricated for quick installation.
- No maintenance problems—cleans, drains rapidly.
- Use as independent flooring or flooring overlay.

Get complete . . . free . . . information that may save you thousands! Write today on your company letterhead to Dept. SD-E12.

Wherever oil, grease or other substances raise special slipping accident hazards, we suggest a check on the special non-slip qualities of A.W. ALGRIP—the world's only abrasive rolled steel safety floor plate.

Pattern actual size

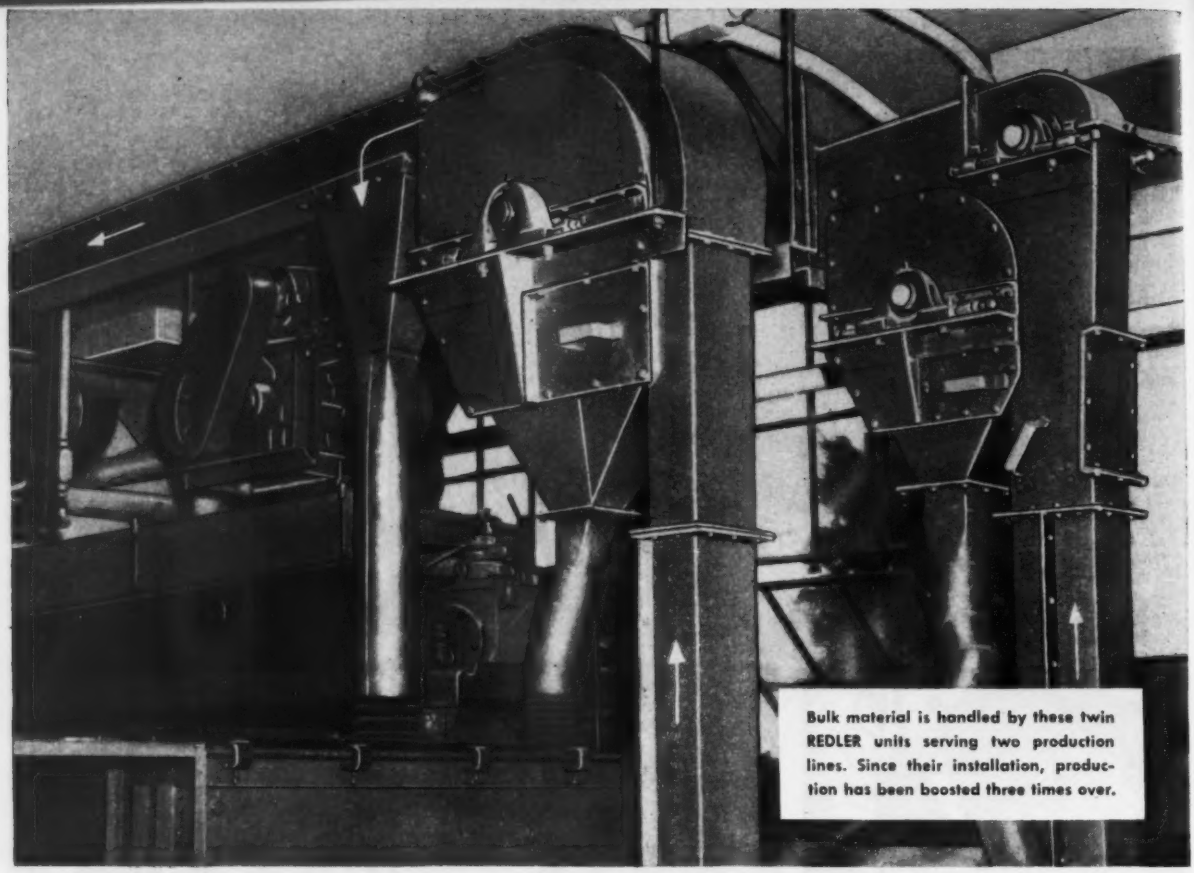


A.W. SUPER-DIAMOND ROLLED STEEL FLOOR PLATE

ALAN WOOD STEEL COMPANY • CONSHOHOCKEN, PA.

Other Products: A.W. ALGRIP Abrasive Rolled Steel Floor Plate—Plates—Hot and Cold Rolled Sheet and Strip—(Alloy and Special Grades)

. . . for more details, circle No. 28 on Reader Service Postcard



Bulk material is handled by these twin REDLER units serving two production lines. Since their installation, production has been boosted three times over.

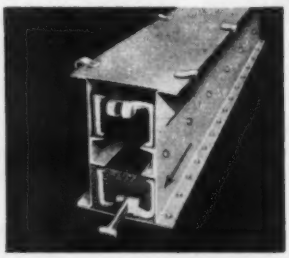
Your best bulk materials handling move . . .

REDLER CONVEYORS-ELEVATORS

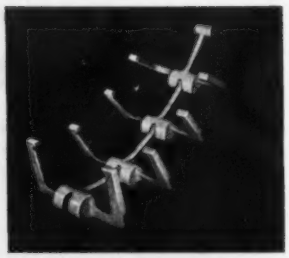
The REDLER Conveyor-Elevator is one of the most remarkable bulk materials handling machines ever built. It moves almost any pulverized, granular, small lump, or flaky material around bends, over vertical, horizontal or inclined planes. Material moves forward in a compact column within a totally enclosed dust-tight casing by means of closely spaced skeleton type flights which move thru the casings.

REDLER Conveyor-Elevator designs are available in sizes to handle almost any tonnage. Easily installed, their rigid box-girder-like casings are practically self-supporting.

Call your local S-A representative or write for catalog 556.



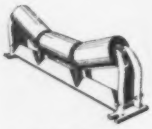
Cross-section view shows material being conveyed in lower run and empty flights returning in upper run to complete the circuit. There is no metal to metal contact. REDLER installation requires little headroom.



Exclusive skeleton type flights, shown above, are linked together and used to move the material forward in a steady non-agitated flow. Chain readily curves around corners, moving material with one unit, one drive.

STEPHEN S-A DAMSON

THE BIG NAME IN BULK MATERIAL HANDLING EQUIPMENT



CARRIERS

VIBRATING CONVEYORS

BELT CONVEYORS

ZIPPER CONVEYOR-ELEVATORS

MFG. CO.

MAIN OFFICE AND PLANT
85 RIDGEWAY AVENUE
AURORA · ILLINOIS

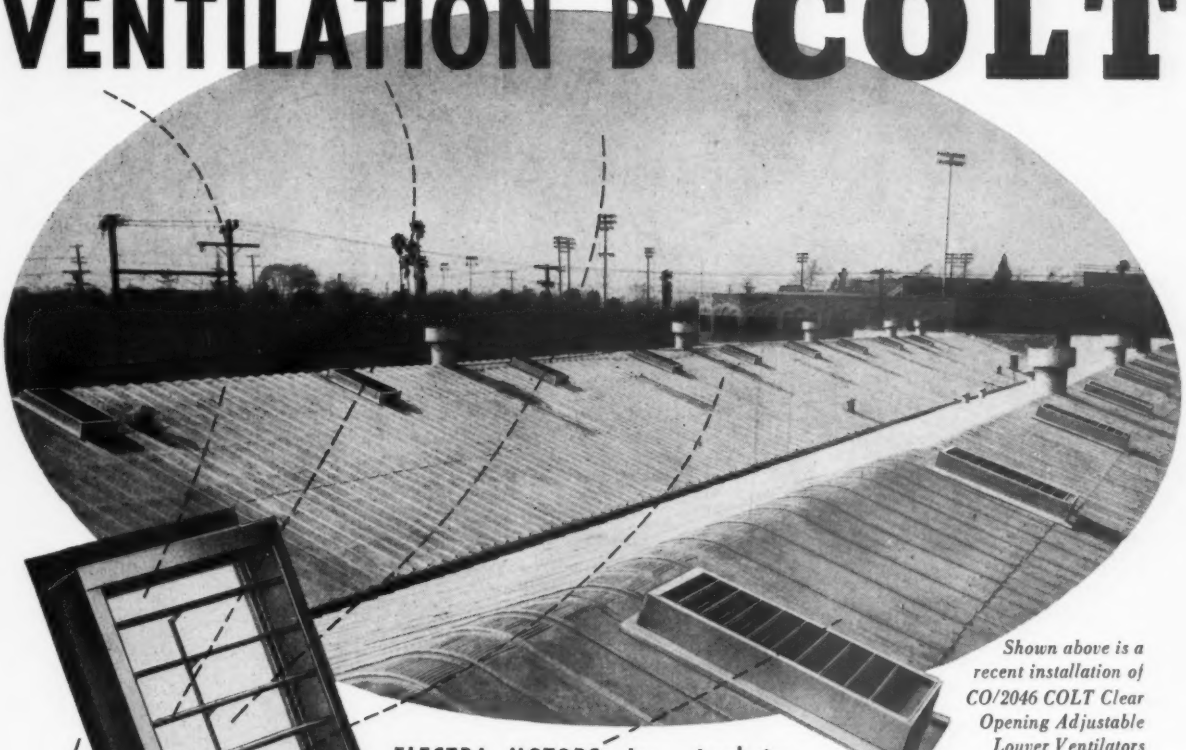
PLANTS LOCATED IN: LOS ANGELES, CALIF. CLARKSDALE, MISS. • BELLEVILLE, ONTARIO

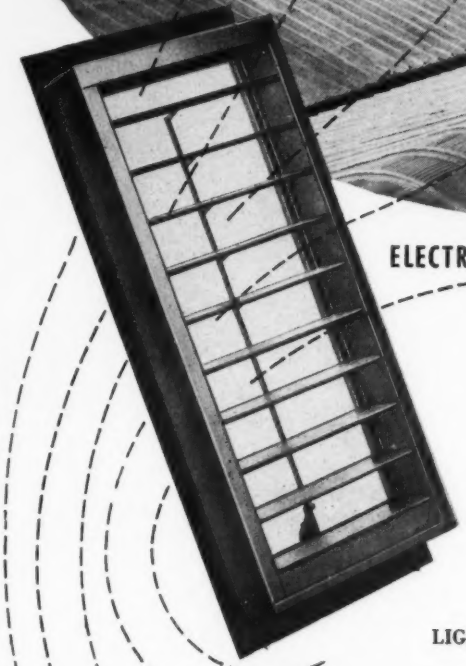
SEE US IN BOOTHS 348 & 349 — MATERIAL HANDLING SHOW — LOS ANGELES, CALIF.

. . . for more details, circle No. 29 on Reader Service Postcard
See listing in Directory Section

Another Southern California Firm Selects

VENTILATION BY COLT





ELECTRA MOTORS, Inc., Anaheim

Shown above is a recent installation of CO/2046 COLT Clear Opening Adjustable Louver Ventilators in the roof at Electra Motors, Inc., Anaheim.

If your building is hotter than blazes in warm weather and employee fatigue is costing you money, you have an air circulation problem. Here is a low cost answer effectively adopted by this firm and many others in Southern California. (If you're planning a new building, be sure to specify COLT.) Here's why:

EFFICIENCY AND ECONOMY—The COLT "CO" ventilator is unique in design and application . . . Sturdily built of anti-corrosive hardened aluminum. Full clear opening permits maximum possible passage of air. Top and side drain channels on louvers guard against rain. Adjustable louvers 100% rainproof when closed.

LIGHTWEIGHT—can be installed in any type of factory roof, weighs just 23 pounds.

NO OPERATING COSTS—built-in hand-operated control, no power required.

EXTRA FIRE PROTECTION—A simple additional feature gives you dual function. Louvers open down automatically in event of fire. Wide, unrestricted free area allows immediate escape of heat and smoke. (Authorities agree that fire control in industry must include modern and efficient fire venting.) ***Many other features are fully described in free pamphlet, "Some Aspects of Fire Prevention in Industrial Buildings," by M. J. Reaney.***

ANOTHER FINE PRODUCT BY

COLT VENTILATION OF AMERICA, INC.

4652 Hollywood Boulevard, Los Angeles 27, California • NOrmandy 2-1181

A wide variety of ventilators to suit every need.

*Send also for **Free Technical Manual** giving full details of the COLT system and equipment used.*

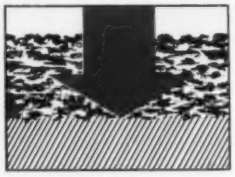
. . . for more details, circle No. 30 on Reader Service Postcard

. . . for more details, adv. pgs. 36 & 37, circle No. 31 on Reader Service Postcard →

Helping to make present equipment last longer

Apply Rust-Oleum 769 Damp-Proof Red Primer directly over sound rusted surface! Specially-processed fish oil vehicle penetrates rust to bare metal!

Cut costly surface preparations and save time, money, and metal by applying Rust-Oleum 769 Damp-Proof Red Primer over sound rusted surfaces after simple scraping and wirebrushing to remove rust scale and loose rust. You can do this because Rust-Oleum's *specially-processed* fish oil vehicle penetrates through the rust to bare metal, driving out air and moisture that cause rust. At the same time, it dries to a tough, durable surface coating that resists general weathering up to one year before applying the Rust-Oleum finish coat. See how Rust-Oleum can save you time, money, and metal. What Rust-Oleum has saved for others is not half so important as what it can do for you.



Write for special thirty-page report showing Rust-Oleum penetration through rust to bare metal as prepared by Battelle Memorial Institute Technologists.

RUST-OLEUM®

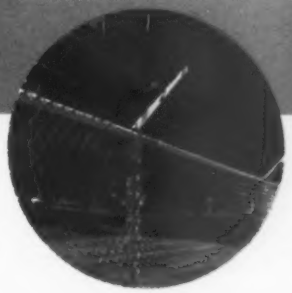
Distinctive as your own fingerprint.
Accept no substitute.

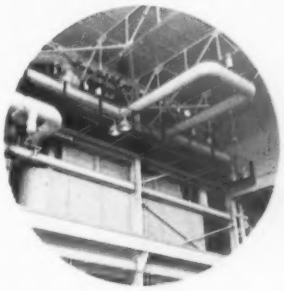
STOPS RUST!®

Prompt delivery
from Rust-Oleum
Industrial Distributor stocks.

and beautifies as it protects!

Applying Rust-Oleum Aluminum finish coating over the Rust-Oleum primer for lasting beauty.





Follow-up with the Rust-Oleum finish color of your choice for double protection and lasting beauty!

Stop Rust!—and do it in the color of your choice—that's step number two in the Rust-Oleum rust-prevention *system*. Simply apply the Rust-Oleum finish color over the 769 Damp-Proof Red Primer. You receive *double protection* and greater compatibility, because Rust-Oleum finish colors utilize the *specially-processed* fish oil vehicle—and they dry to a firm, decorative, high-gloss finish that resists sun, fumes, heat, moisture, weathering, salt air, etc. You *beautify as you protect*, because Rust-Oleum finish coatings are available in Aluminum, Black, Green, Yellow, Gray, Blue, White, Red and many others. Write for complete information with color charts. Specify Rust-Oleum for new construction, maintenance, and re-modeling. Rust-Oleum Industrial Distributors maintain complete stocks for your convenience . . . and will be happy to consult with you on your rust problems.

What is your rust problem? What Rust-Oleum color do you need?

White, Black, Aluminum, Gray, Green, Blue, Yellow, Red and many others—they're all yours with Rust-Oleum! Beauty that lasts over-the-years. Rust-Oleum is also available in custom formulations to match unusual colors or to meet unusual rust-producing conditions. Send us your rust problems. We'll send you complete details—no charge or obligation.

ATTACH TO YOUR LETTERHEAD FOR THE FACTS

Rust-Oleum Corporation
2990 Oakton Street • Evanston, Illinois

Please send me the following.

- ☐ Complete literature with applications and color charts.
- ☐ Information on matching special colors.
- ☐ Thirty-page report on Rust-Oleum penetration.

Now is the time to overcome every obstacle to greater earnings!

For the full measure of hauling profits, specify WHITE TRUCKS!

The S. H. Bacon Materials Company found their winning combination in the White 4000T. Hauling sand and gravel from El Monte, California to their batch plants at nearby Huntington Park and Montebello, a relatively short haul through city traffic, Bacon gained greater efficiency in hauling... lower maintenance with these payload-proved options: White 470 Mustang gasoline engine, 517B Main transmission, 7231 Auxiliary transmission, 60D front axle, 235C White rear axle, and disc wheels. With 60' overall length, Bacon's White 4000Ts and hopper trailers produced a payload of 25½ tons.

Top payloads invariably result when you get the efficient White combination of engine, axles, transmissions and frame to fit your particular requirement. Learn how so many western truck operators trim hauling costs and better their profit picture with the switch to White. Your White representative has actual facts and figures... so why not get in touch with him right now?

White

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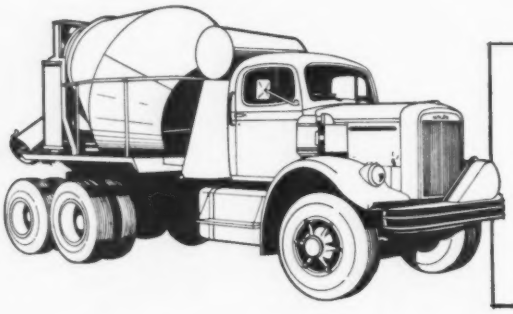

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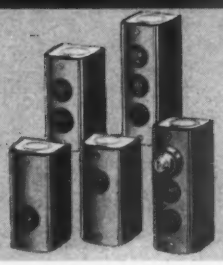

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Western Industry
Vol. XXIII
No. 4

Top M-H ideas . . .

IF YOUR operation calls for:

(1) lots of parts;
(2) parts that must be moved frequently;
(3) parts that demand many kinds of handling equipment. . .

Then this article is for you. It's packed full of Pacemaker Ideas that'll improve your material handling system.

Our story takes place at the new warehouse of Purity Stores, Ltd. in Burlingame, Calif. In this 254,000-sq. ft. warehouse (larger than five football fields), *Arthur Allison,* director of engineering, and *W. J. Thomson, Jr.,* manager of warehousing, have devised a material handling set-up that deserves a chapter in any M-H book.

Let's examine their operations to see where we can pick up a pointer or two.

(1) In general . . . the building is equipped with 19 truck-receiving doors and has truck parking facilities for 70 rigs. A railroad siding snuggles up to the warehouse and has its own entrance. The siding has a capacity for 17 forty-ft. cars.

A 1,400-ft. underfloor conveyor can carry 70 flat trucks, or 6,700 lbs. per minute.

Industrial trucks include eight 4,000-lb. pallet trucks; four 2,000-lb. fork trucks; twelve 4,000-lb. fork trucks; 200 hand trucks (for underfloor conveyor).

(2) The floor of the warehouse is constructed of reinforced concrete with a Masterplate special surface hardener that prevents concrete from dusting . . . and also increases its resistance to abrasion. These advantages help heavy fork truck traffic.

(3) All merchandise is indexed by a Warehouse Location Code. The code number is based upon the location of the item in racks. Each rack location has a fixed number of five digits. The first two represent the aisle . . . next two the section . . . and the last one the tier. Items are grouped by carton size and velocity of movement. Fastest moving items are placed nearest loading docks.

see section (7)

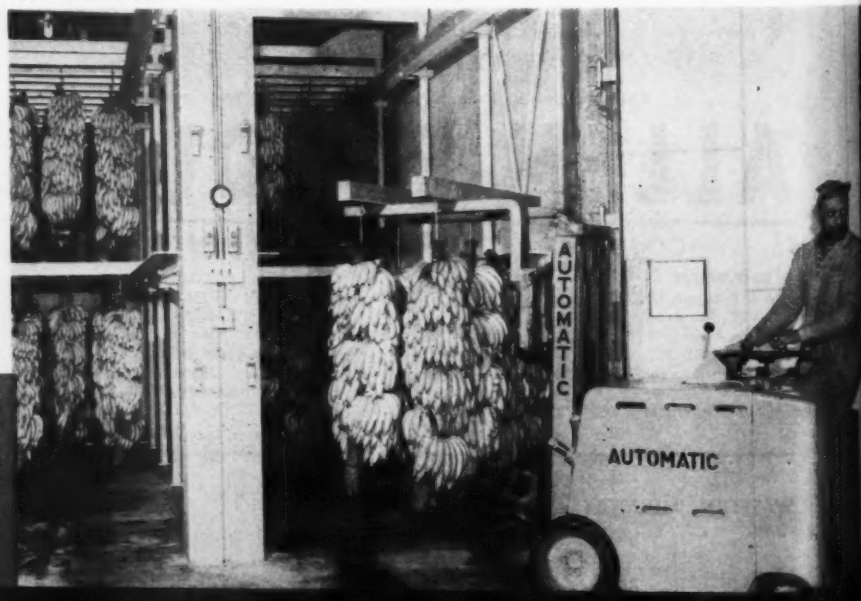
(4) Dry groceries are stored on four-way slotted stringer pallets (40 x 48 in.) that can be stacked four high in racks. Two types of racks are used, both made by Storage Products Corp. In one type, a fork lift can pick up the pallet by driving right into the rack. The racks can be assembled without nuts and bolts. They are completely adjustable as to shelf height.

(5) Small aluminum hand trucks made by Rol-Away Mfg. Co. are used in some areas. These trucks have retractable ladders attached to them. On the four-wheel flat trucks used on the underfloor conveyor, Purity has designed a portable aluminum ladder, modeled after a fireman's ladder. This ladder can hook right onto the racks.

(6) Incoming and outgoing merchandise is handled by a combination of Clark and Automatic fork trucks, Automatic pallet trucks, an underfloor conveyor and hand trucks. The electric trucks are of the latest design, with a maximum traveling speed of six to seven miles an hour and a fork lift speed (loaded) of from 30 to 40 ft. a minute. Magnesium dock boards (Penco) facilitate loading into trucks (fork trucks can drive right into vans) and Rotary Lift Co. dock levelers bring loads up to any desired height.

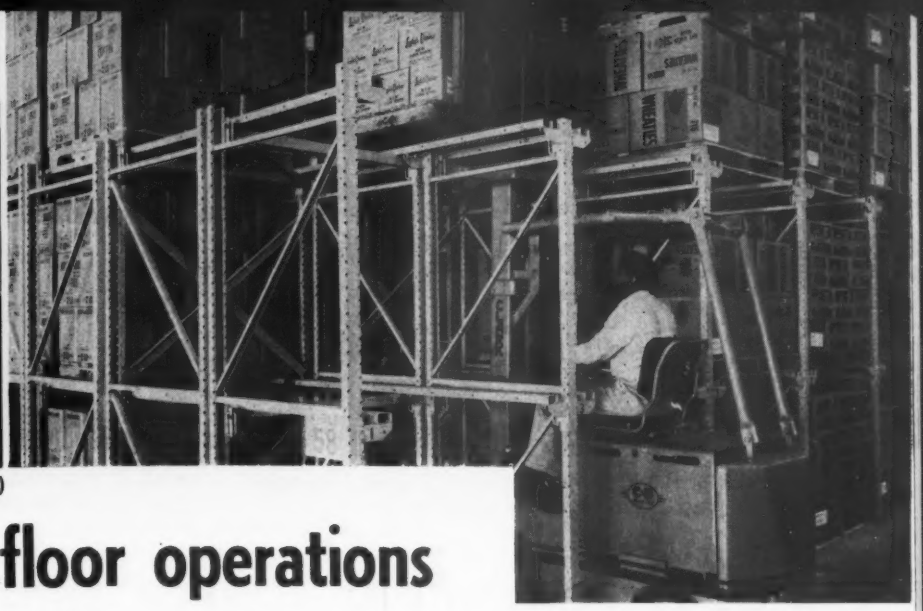
(7) The 1,400-ft. Jervis B. Webb underfloor conveyor moves at a constant 85 ft. per minute. The conveyor uses a specially designed Nutting Co. four-wheel trailer, equipped with a Roll-Rite self-energizing rubber tire caster. The rolling characteristics of this

see section (8)



Western Industry **Material Handling Pacemaker Idea**

Floor handling at Purity warehouse



see section (11)

. . . starting with floor operations

see section (4)

truck are exceptional—one man can easily roll a loaded (2,000-lb.) truck.

The chain of the underfloor conveyor is equipped with hitches every 18 ft. that connect with a pin attached to the four-wheel hand trucks. The pin on the hand truck can be raised and lowered for connecting and disconnecting flat truck to conveyor.

(8) Bananas are transported by fork trucks instead of conveyor, in an operation that is speedy, efficient and eliminates damage to fruit. An Automatic Docker (2,000 lbs.) with inverted forks drives into the freight car . . . lifts bananas hung on a bar . . . then scoots right into the banana room, hanging up bananas. Thus the bananas are not even touched as they move from the rail car to banana room. And the fork truck can pick them up and carry them to a cutting conveyor.

(9) Truck shipping docks are equipped with Rotary Lift Co. hydraulic dock levelers. These levelers automatically move up and down during the loading and unloading operation.

(10) Battery changing costs have been reduced at least 50% with a new method. Instead of using a space-consuming and elaborate overhead hoist setup, a steel tray battery (C & D) with cover, plus two-in.-high channels welded to the battery tray bottom, is used.

A fork truck hoists a fresh battery and positions it into the truck being used. No fuss or muss. (This system was described fully on pgs. 75-76 in the January WESTERN INDUSTRY). All batteries are charged on Hobart multi-circuit chargers.

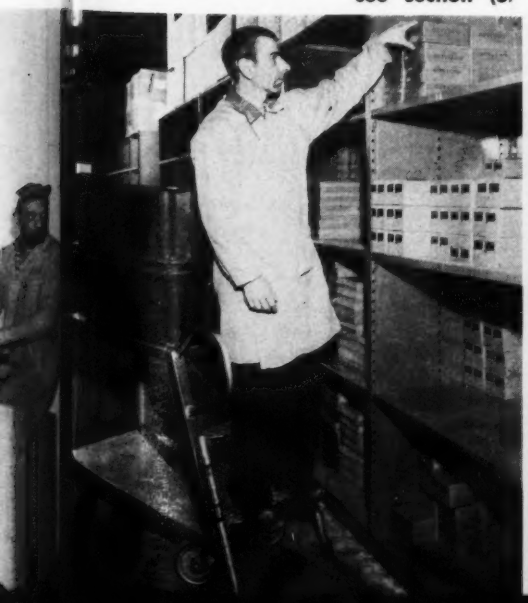
(11) An automatic Grover Co. pneumatic tube system connects key points in the office and warehouse. To operate the system, the number of the station to which the message is being sent is dialed on the carrier and the carrier inserted in the tube. Upon arriving at the designated station, a light automatically flashes to indicate this fact to the people concerned.

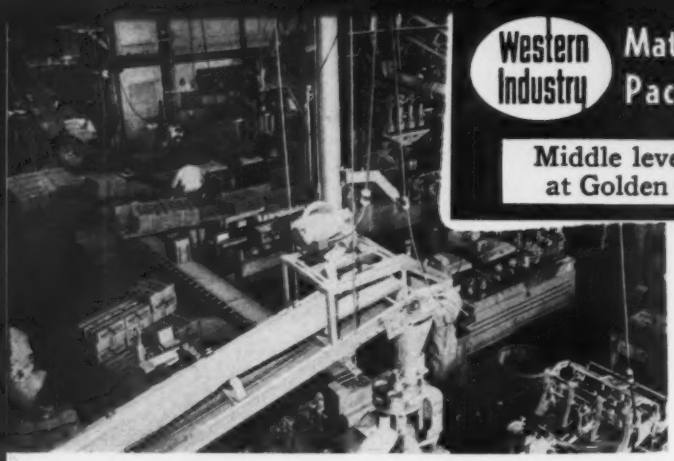
(12) The office and warehouse have an inter-connecting automatic dial telephone system.

There . . . does that give you some ideas for improving your own material handling techniques? It's working great for Purity Stores, Ltd. . . . and it will be able to keep pace with an ever-growing volume of business for this company.

see section (5)

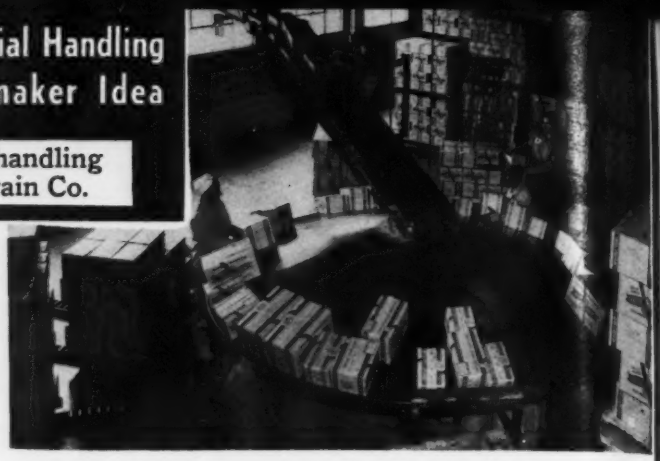
see section (10)





Western Industry Material Handling Pacemaker Idea

Middle level handling at Golden Grain Co.



IT STARTS HERE, in automatic filling and bagging section where conveyor runs to sealer . . .

AND IT ENDS HERE, at turntable collector, where one man easily handles palletizing job.

M-H equipment speeds production 40%

★M-H PACEMAKER plant that upped production 40% with handling equipment alone . . .

By Roger Dent McCoy
Registered Professional Engineer

COULD YOU MEET a 40% increase in production with your present equipment?

Golden Grain Macaroni Co., San Leandro, Calif., did . . . and it has capacity left over for increase in the near future!

The company accomplished this feat through the installation of a very simple and economical material handling system — that paid for itself in a very few months and has been earning gratifying dividends since then.

Golden Grain manufactures some 387 food items. All these require careful handling, as they must reach the consumer in perfect condition.

So, faced with the necessity o' doing something to meet the demands of increased sales—without adding more processing equipment — *Vince de Domenico*, Golden Grain president, called upon the Mathews Conveyer Co., which, working with *Frank Viola*, Golden Grain general manager, designed the handling system shown in the sketch.

The system is basically simple, consisting of an 18 in.-high belt conveyor placed at the discharge end of the automatic packaging machines . . . in such a manner that the operator can pack sealed bags into a shipping container and push it onto the belt. The belt travels level until it has passed all of the machines, then inclines to an elevation of 15 ft. where it discharges the cases onto a gravity roller conveyor.

The cartons travel by gravity into a Standard-Knapp fully automatic top and bottom sealer and compression unit. From the compression unit they travel by gravity rollers to approximately the center of the warehouse . . . where they are transferred to a declined belt conveyor and then onto a conical turntable collector.

Pallets, sitting on roller beds, are placed around the collector, each set of rollers accommodating two pallets.

An employee works around the turntable, selecting cases as they come and placing them on a pallet. He may work on one product (at one pallet) until several cases of another item have collected . . . and then move to the area of the pallet to be used for that item.

When he fills a pallet he pushes it back on the roller bed and places an empty in its place. When both pallets have been filled a fork truck stacks them, one on the other, and deposits them in the area previously assigned to the product.

There is no waiting time for the fork. If it is delayed, the palletizer allows that item to accumulate on the turntable and works on the other items. One man very easily handles the entire palletizing job.

There is no necessity of hunting for a fork truck since they are working in the warehouse all the time . . . and pass the palletizing operation every minute or so. When a pallet is full they automatically pick it up and take it away.

The entire system, from where it leaves the 18-in. elevation in the packaging area until it reaches the collector, is overhead—having a minimum 10-ft. clearance over all traffic. The case sealer is placed on a platform, cantilevered from the wall, with no supporting structure to the floor beneath.

The case sealer is a fully automatic, self-adjusting machine manufactured by the Standard-Knapp Co.

This machine is an ingenious device, possessing a mind of its own. The machine sets itself to the proper height, length and width to seal a case about to enter —without disturbing the case being sealed. It takes a wide variety of case sizes—in any combination of length, width and height —and seals them efficiently.

The many sizes and shapes of shipping cases needed to handle the 387 different items packed

called for this type sealer.

The savings—or earnings, as I prefer to call them—derived from this system are:

1. Automatic packaging and bagging machine speeds increased from 25 to 40 units per minute.

2. Elimination of down time caused by congestion around machines.

3. Reduction of palletizing employees from three to one.

4. Elimination of carton gluing and palletizing duties of machine operators, resulting in better inspection and fewer rejects.

5. Reduced lift truck time from 10 hrs. per day servicing 5 lines to 5 hrs. per day servicing 6 lines.

6. A reduction of production hours per item. Previous 12-14 hrs. per run reduced to 7-8 hrs. per run. This eliminated much of the night shift.

7. All similar machines grouped into one area when the 6th packaging line was moved from an out of the way spot.

8. Many other benefits — such as clean, clear aisles and working space around automatics . . . improved working conditions . . . decreased safety hazards, etc.

Prior to the new setup, filling and heat sealing of cellophane bags was done on the automatics, then the bags were inserted into the shipping cases, hand glued and palletized at the filling station.

This caused considerable confusion and down time as the fork truck had to remove a loaded pallet and place an empty, threading its way through congested aisles. Waiting time for a truck mounted . . . as at times several pallets would require removal at one time.

In the old system, there were five automatics working in the same area. With the installation of the new material handling system, this congestion was completely removed, and Mr. Viola moved another packaging line into the area, making a total of six.

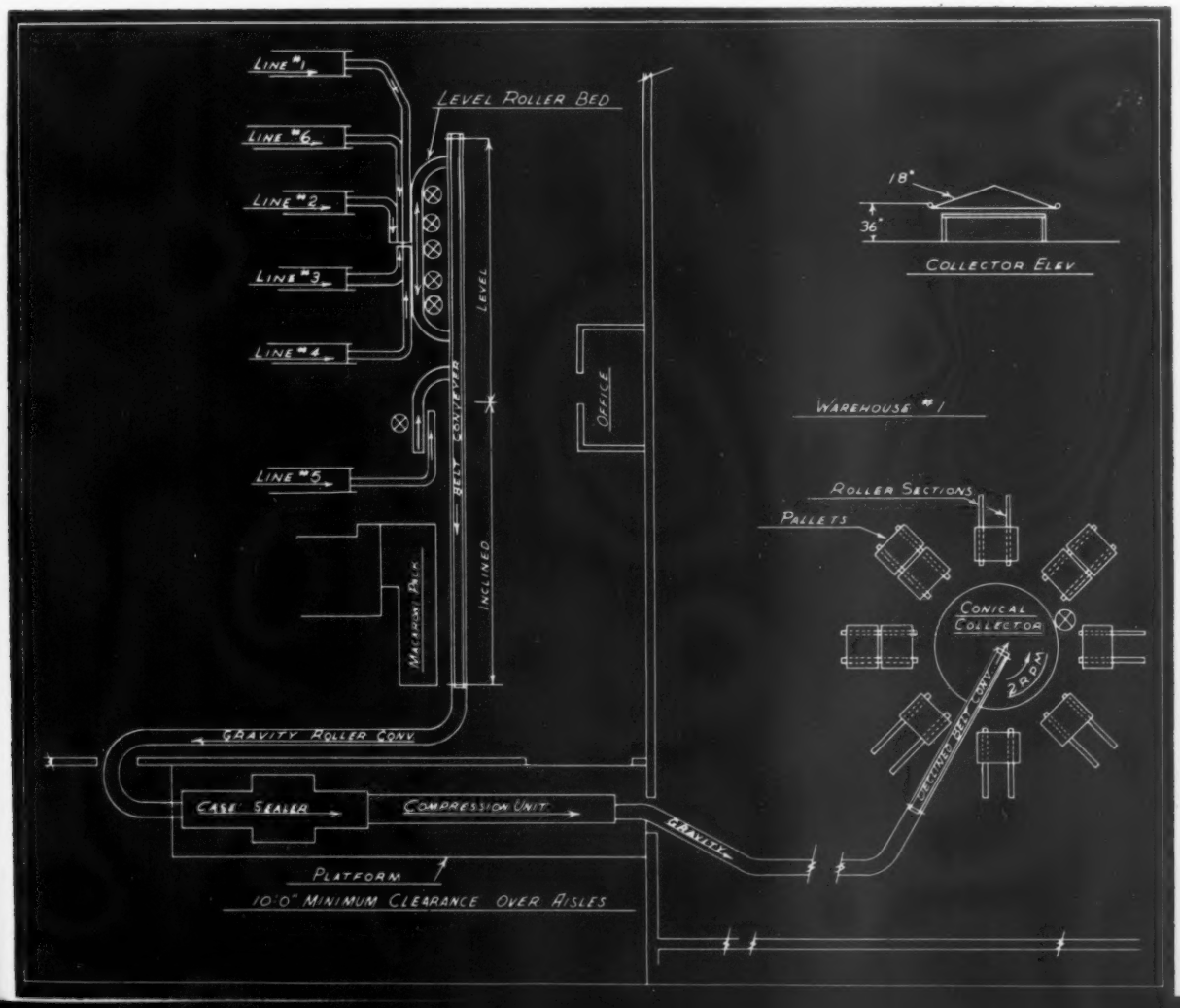
And the new system is completely versatile, since it is adaptable to any industry with a wide range of products. It will handle items delicate in nature, without breakage. And, just as easily, it can handle products that will take abuse.

The system can't be beaten for simplicity when used with a battery of machines that produce—in a few hours or days—a predetermined number of cases of one item to make up a warehouse maximum . . . then converted to produce another standard product.

Bolts, nuts, screws, nails, foods, drugs, electronic tubes, gloves, socks . . . you name it—and the system will handle it.

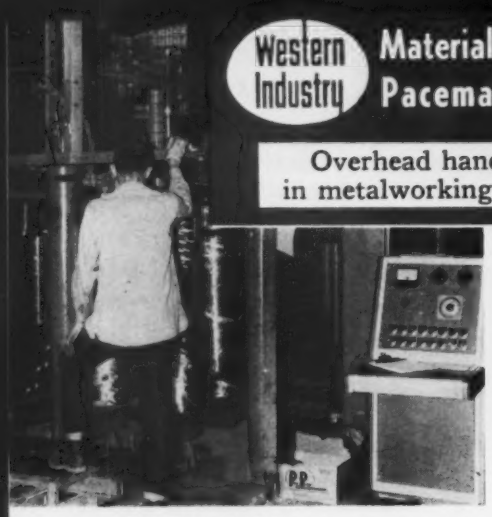
As it's being used, the system is practically loafing. It is capable of handling several more lines

Diagram of Golden Grain Macaroni Co. M-H System

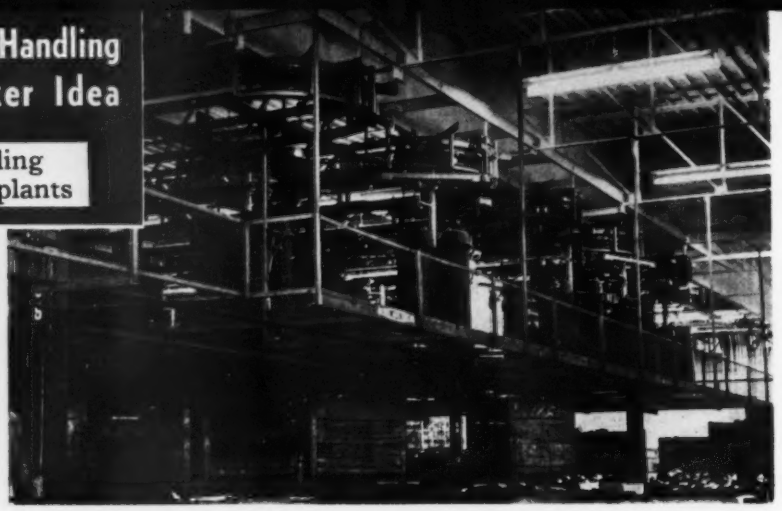


Western Industry **Material Handling Pacemaker Idea**

Overhead handling in metalworking plants



CONTROL PANEL for conveyor at right. Lowerator at left . . .



"POWER AND FREE" conveyor system as it winds back and forth through unused overhead space. 1,080 tanks can be stored until needed . . .

Overhead handling to get you anywhere

★M-H PACEMAKER plant equipped with overhead handling units of all kinds —one of which gets nowhere . . .

By Ted Bottiggi
Chief Manufacturing Engineer
Day and Night Mfg. Co. and
The Payne Co.

AN OVERHEAD CONVEYOR system that gets nowhere is a highly efficient one? Yes, it is—in the case of a new "power-and-free" conveyor system installed in our new plant at La Puente, Calif.

The purpose of the system is to pick up all water heater tanks that are galvanized or enameled during two complete workshifts and store them on the moving conveyor until they are needed by the final assembly line.

This eliminates all space-consuming floor storage banks, reduces manual handling to practically zero, and assures that the right tanks are delivered to the final assembly line in the correct amount—just when they are needed.

And this system could be installed in your plant to advantage . . . as it eliminates floor storage of in-process parts and releases this space for more productive purposes. Our system was designed by Mechanical Handling Systems, Inc. (Detroit, Mich.) and installed by Alden Equipment Co. (Gardena, Calif.).

Basically, this is how the power-and-free system operates:

The powered section of the conveyor is 2,300 ft. long and winds back and forth through the empty overhead space, wherever there is room for it to travel. The conveyor is hung with 270 platform-type water heater tank carriers, with a capacity of four tanks each. This makes it possible to store a total of 1,080 tanks on the power and free system at any one time.

Two combination lowerators and elevators are installed, one at the end of the tank fabrication line, the other near the beginning of the final assembly line. These are used for loading tank-filled conveyor carriers onto the powered section, then off again when they are needed. A spring pusher bank conveyor operates in conjunction with the lowerator in the final assembly area.

The entire system is electrically operated by selective pushbutton controls. The powered section is driven by two 25 hp. motors. To simplify this operation, let us trace one conveyor carrier from the time it is loaded at the end of the tank fabrication line, until it has delivered its load to the final assembly line, then returned again for another load of four fabricated tanks.

Tanks arrive in the loading area from the enameling and galvanizing departments via gravity-type roller conveyors. Four of them are slid from this roller conveyor directly onto the platform of the conveyor carrier mounted in the elevator. The four tanks on any one conveyor carrier are always alike, so that no mixup will occur because of different tanks being delivered to the assembly line. The operator then adjusts a series of coded flags mounted on the carrier to indicate the type of tank it contains. These signal flags may be adjusted to indicate 24 different types of tanks plus a 25th code which signals that the carrier is empty.

With the tanks loaded and the proper signal set, the operator actuates a switch and the carrier is elevated to the power conveyor level. It enters from the elevator onto a short shunt section of conveyor which moves it outward to a switch on the powered conveyor line. Here it remains until an empty space on the power line comes along. When this empty space arrives, the switch is automatically actuated and the loaded carrier moves from the shunt line onto the powered line and takes its place with the other carriers traveling the endless storage circuit.

This completes the loading operation. The lowerator in the final assembly area, as already noted, operates in conjunction with a spring pusher bank conveyor which is switched off from, and

into, the main power conveyor. When a certain number of a certain type of tanks is required by the final assembly line, the operator first pushes a button which indicates the type of tank required.

This actuates the switch into the pusher bank conveyor so that it will intercept all conveyor carriers loaded with the type of tank desired. He then pushes another switch which sets an automatic counting mechanism so that only the desired number of carriers (each with four tanks) will be intercepted from the powered line. The pusher bank conveyor can temporarily store approximately 40 carriers, or 160 tanks. The first-in-line carrier on the free pusher system is always first in the lowerator.

To return to our original carrier (which we loaded a few paragraphs back), let us assume that the operator in the final assembly line area has pushed a switch indicating that the type of tank with which this carrier is loaded is needed on the assembly line. When the carrier approaches the switch-off into the pusher bank system, its coded flag signals intercept the proper coded signals on the switch and it is automatically switched off into the pusher bank system.

Entering the lowerator

It then enters the lowerator (if it happens to be the first in line), is lowered to floor level, unloaded, then elevated back into the empty-out end of the pusher bank line. The carrier then moves out to another switching position on the powered line and waits until an empty space comes. When the empty space arrives, it is again automatically switched onto the powered line.

But now its flag signals have been set to show that it is empty. So when it reaches the shunt section of conveyor which leads to the elevator in the tank fabrication area, it will automatically switch from the powered line and be returned for a new load of tanks.

If the carrier had not been unloaded by the time it reaches this shunt section switch it would have continued onward in a loop around the loading elevator and continued to circulate on the powered section until needed in final assembly.

In actuality, this is a dual purpose conveyor system, not only storing the tanks until needed, but transporting them also from the fabrication department to the final assembly area. The system makes it possible to store and deliver 24 different types of tanks, produced by two fabrication departments working two shifts each, to a final assembly line which works only one shift a day. This work arrangement was necessary because each fabrication department can turn out approximately 350 tanks a workshift, while the assembly line can assemble approximately 1,400 water heaters during a single shift.

Other handling equipment

While the power-and-free conveyor system is probably the outstanding innovation in the new plant's material handling system, other handling ideas are well worth noting, not only for their efficiency, but because, with a bit of planning, they could be incorporated in plants which are already operating.

One of these is the dual-purpose overhead conveyor used to carry parts through the hand-spray finishing line and thence to either an assembly line storage area, or directly to the final assembly line itself. This conveyor employs two pickup stations, one located in the furnace casing production area, the other in a high production miscellaneous parts area.

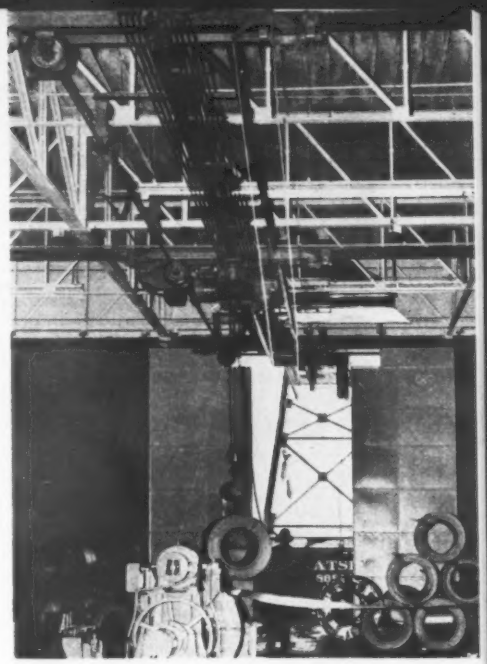
The casings and the miscellaneous parts thus travel together along the hand-spray finishing line. But again beyond the finishing line, two unloading stations are employed. The miscellaneous parts are unloaded in an assembly storage area from which auxiliary supply conveyors carry them to the assembly line as needed.

But because the furnace casings and their fabrication are correlated with assembly, these casings remain on the dual-purpose conveyor and are unloaded directly on the assembly line where they are needed. It's quite obvious that with a bit of careful planning, and perhaps minor adjustments in plant layout, many existing overhead conveyors now in operation could be made to serve a similar dual-purpose function.

The crane system which services the incoming raw material department and the initial fabrication departments is another example of modern material handling at its best. This system consists of a five-ton capacity motorized, single-leg gantry crane, and three five-ton, 3-rail, underslung motorized bridge cranes. Three interlock points make it possible to transfer a hoist and its load from the gantry crane to any one of the three bridge cranes.

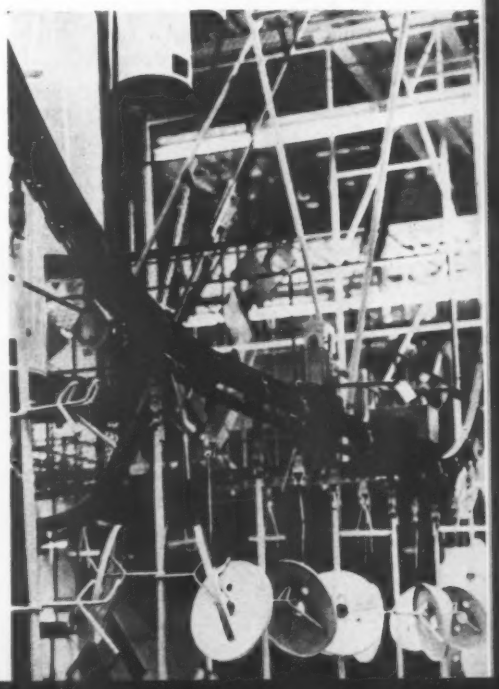
The bridge cranes have a 54-ft. span, and are single girder types. Two of the cranes are directly interlocked to—and service—the

. . . continued on p. 79



BRIDGE CRANE receives coil steel load from outside gantry crane.

"I" BEAM CONVEYORS handle small parts through finishing dept.



By James L. Buckwalter
Plant Industrial Engineer
Butler Manufacturing Co.
Richmond, Calif.

Building your own M-H system by adapting standard equipment

STEEL BEAMS can kick up quite a fuss when you try to maneuver them through a production line for painting.

The small beams can be handled by hand . . . but the larger ones demand powered equipment. However, powered equipment for special purposes cannot always be purchased commercially.

What were we going to do? We had to get those big beams through the paint line for their prime coat. We knew we could hand feed small parts on our Link-Belt conveyor production line for painting, but the big ones still presented the backache.

Yes, several men could hoist the big fellows onto the Link-Belt line, but backaches were too frequent. Then we tried using a fork truck, but this meant tying up an expensive piece of equipment and involved frequent delays. Each delay tied up six men on the production line. We had to do something!

Hydraulic Loader and Unloader

The answer came in the design and construction of special hydraulic transfer units for loading and a lift truck arrangement for unloading.

The loader includes a Standard Conveyor Co. roller conveyor leading into the production line at right angles. The end of the roller conveyor has a small mechanized section that does the work.

The section incorporates a hydraulic cylinder and folds up to allow heavy beams to be left conveyor line. This section was cut from the regular conveyor.

In operation, a worker moves a beam along the roller conveyor until it is resting on the mechanized section of the conveyor. Here the beams rest while hooks are placed in holes in the flanges and then attached to the overhead chain conveyor. As the overhead chain conveyor begins to tug on the hooks, the beam is lowered very gently and is left hanging on the chain conveyor.

Key to the operation

Beams cannot start to descend until the chain conveyor starts to pull on the hooks. This pulls the loading unit over the top dead center. After this, the weight of the beam forces the unit down against a hydraulic cylinder (Ortho Pneumatic Co.—3-in. bore, 10-in. stroke, cushion both ends). The cylinder forces oil through a Hanna speed control valve which controls the rate of descent.

After the unit has descended, the beam is left hanging on the chain conveyor and is on its way through the degreaser, washing unit, drying oven, painting booths, back through the drying oven and finally to the unloading area where special unloading units (to be described later) are used to remove the beam from the overhead chain conveyor.

Oil forced out of the cylinders is stored in the bottom of a small compressed air tank built into the unit. About one-gallon of oil is used . . . and the remainder of the tank is charged with air at 30 lbs. pressure. The air is used to push the oil into the cylinder after the beam has left; this raises the unit back to the starting position, ready for the next beam.

The air pressure is too low to interfere with the downward movement of the unit caused by the weight of a heavy beam. It is used only for returning the unit to the top. Tanks hold their pressure for many months without recharging, so it's not necessary to have compressed air connected to the unit.

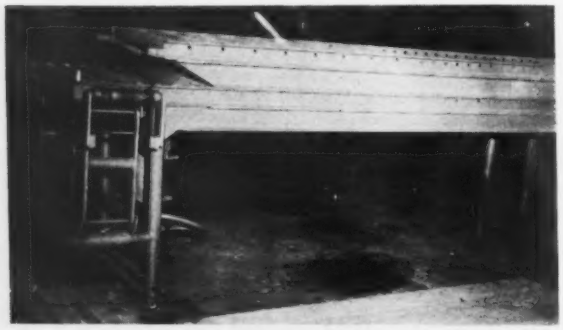
Capacity of units and cost

Units will handle beams weighing 2,000 lbs. These units were designed by myself and built in our own shop at a cost of $280 each. This includes labor, material, and overhead. Units are being depreciated over a 10-year period, but will probably last longer if maintained properly. Arc welded construction was used freely.

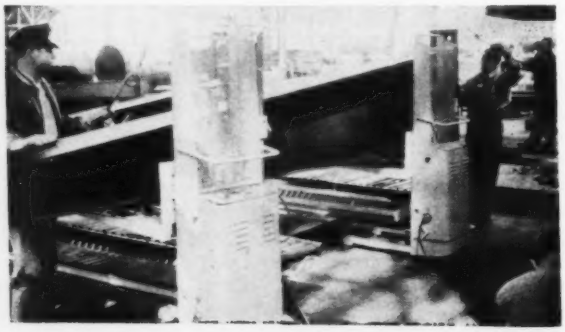
Savings and advantages

Operators enjoy using these units. No longer do they have to strain to handle big beams. The hanging from the overhead chain

LOADER UNIT includes a section of conveyor and a hydraulic cylinder that raises and lowers.



UNLOADING consists of E-Z lifts equipped with limit switches, rollers, and control switch.



★M-H PACEMAKER *that tells how you can solve your own M-H problems by clever arrangements of standard equipment. Here's Western "imagineering" at its best . . .*

Western Industry **Material Handling Pacemaker Idea**

Handling heavy beams at Butler Mfg. Co.

paint conveyor line can now be operated without delays from fork truck maneuvering . . . and one fork truck, which was used part time, is now free for other work.

It's estimated that all of these factors add up to an annual savings of almost $2,000. At this rate, the units have paid for themselves in less than three months.

Could be used elsewhere

Although these units have been used only for transferring heavy beams from a roller conveyor onto an overhead chain conveyor, there is no reason why this principle could not be used on many other applications where heavy loads must be moved horizontally and then lowered onto another handling device.

Special unloading units

The unloaders mentioned earlier consist of two Crown E-Z Lifts upon which have been mounted Cutler-Hammer limit switches and a roller. The roller is mounted on the forks and supports the load.

Both E-Z lifts are connected by a single power cord . . . and one unit — the master unit — is connected to a Furnas foot control switch that operates both units simultaneously.

In operation, the E-Z Lifts are left with their forks in the lowered position until a beam has passed about evenly between the two. At this moment, one operator presses the foot control switch, raising the rollers of both units. This lifts the beam until overhead conveyor hooks can be removed.

The foot control switch is now reversed and the beam is lowered onto roller conveyors adjacent to the units. After a number of beams have been placed on these roller conveyors, the beams are hauled away with a fork lift truck.

The Crown E-Z Lift units are ordinarily sold with battery power. For our application, however, the factory equipped them with ¾-hp. 120 v., 60 cycle, single-phase capacitor motors.

Limit switches are necessary to synchronize the units at the end of each cycle. Without the limit switches the unit handling the lighter load would gain very slightly on each cycle . . . with the accumulative effect that it would eventually be operating in a range with a much higher elevation than the other unit.

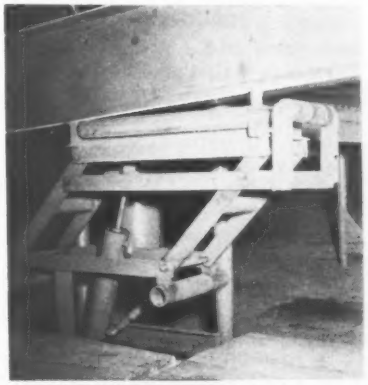
The limit switches also make the E-Z Lift units much easier to operate. This is because the operator can devote his attention to removing the hooks and handling the beam after he has pressed the foot control switch, knowing that the units will come to a stop at the proper elevation.

It's interesting to mention the use of Thomson Industries ball bushings on the rollers. These were used so that it would be possible to move the beam in any horizontal direction while it is supported on the rollers. This feature comes in handy when clips welded on the ends of beams hang too low to clear the top of the roller conveyor.

In this case the roller conveyors are positioned so that the beam clip will clear the end of the roller conveyor. As the beam is lowered it is pushed sideways so that it comes to rest on the roller conveyor.

Thus, with the special hydraulic transfer units . . . and the special unloading devices, the handling of big beams is no longer any problem. If you have any heavy parts that must be handled in a similar application, you might find that our system will give you some pointers. Good luck on your own handling problems.

LOADER IN ACTION—operator holds hook and chain steady until slack is taken up and beam swings free.



LOADER HYDRAULIC cylinder operating. Operates mechanically.

UNLOADER, showing roller and foot control switching device.

M-H Pacemaker Idea - Leasing Equipment

You can pocket profits now by leasing M-H equipment

By Ed Sullivan
Western Regional
Vice President
American Material
Handling Society

WHICH IS MORE important — to **use** equipment that will **immediately** reduce costs in non-productive manufacturing areas—such as material handling —or to own it, but forgo cost reduction benefits until the time that it can be purchased outright from capital funds?

During the past months much has been said to convince management that the Last Frontier of Profit in Industry lies in eliminating unnecessary costs in handling of materials. The convincing has not been easy, because this Last Frontier of Profit is in a non-productive function, and so is outside the conditioned thinking of many busy executives.

However, recent capital-starved months have seen a startling change in fiscal policies, particularly among larger corporations. This is a movement away from the traditional importance of ownership of equipment in cost-reduction areas.

Industrial management is becoming more and more impressed with "chain store" operation, where practically all fixtures and equipment are procured through lease arrangements. This frees a maximum of working capital to provide greater purchasing power, faster turnover, and more profit . . . to more than cover the cost of leasing the non-productive equipment.

In striving for manufacturing cost-reductions, there is no better spot to apply "chain store" industrial leasing techniques than in material handling equipment. The technique makes it possible to lease, install and **use** better equipment to handle parts and materials—while cost reductions so produced **pay** for these normally fixed assets. Meanwhile, reduced manhours and stimulated production bring about faster turnover of available working capital.

The traditional concept, which makes a fetish of ownership, is based on the axiom that "ownership of tools of production is the reward of previously practiced thrift." Savings produced by astute management today are put into working capital, the added profits which provide needed tools and production aids—under a lease arrangement.

The purchase price of a piece of material handling equipment is only a guide to its economic value. Thus, under the new concept it is important, and necessary, to calculate the economic value of the service which cost-reducing equipment renders as a fixed asset, when paid for on a monthly basis.

Take the case of a detachable container system for a large Western processing plant. For outright purchase of the necessary equipment, a capital investment of $28,000 held no favor with management—even though considerable and constant cost reductions could be effected. But, on consideration that the same equipment on lease would cost only $856 a month — while producing direct savings of over $2,000 a month—management saw that the **use** of the equipment, under a lease arrangement, was more important than the purchase of it.

Keeping up with progress

Advantages of leasing are further pointed up by the fast-moving technical improvements made by manufacturers of material handling equipment. The better handling system, which will produce direct savings of $2,000 a month today, may be superseded in two or three years by equipment that will double present cost reductions. The firm using leased equipment is protected against such obsolescence; it can switch to new equipment at the end of a relatively short lease period without sacrificing several years of normal depreciation.

Manufacturers are already accustomed to leasing mobile equipment — trucks, fork-lifts, skip-loaders and yard cranes; however, warehouse and plant equipment of a more permanent, durable and unchanging nature—such as shelving, storage racks, containers, wheeled stock and conveyor systems — are also ideally suitable for leasing. The arrangement providing one or more of these storage or production aids may be either a "true lease" (which may have the effect of postponing certain taxes) or the "purchase-option" lease. In the latter instance, use of the lease may hold special benefits in preserving a line of bank credit to meet emergency expenses.

Leasing in the tax picture

The effect of leasing arrangements on a firm's tax picture must be analyzed by its own accountant or tax attorney. Advantages a lease produces should be considered to be over and above benefits accruing from immediate **use** of the equipment and preservation of **working** capital.

In a recent leaflet the Small Business Administration points out: "Leasing allows the Lessee to expand his production without increasing his financial burden—often the most important consideration to the small business man who has limited working capital; leasing places a small firm in a more competitive position for reasons of increased efficiency in his operations; and, under leasing, users of obsolete equipment may dispose of it and quickly obtain the latest and most modern production aids."

There are many types of lease arrangements from which you may choose. By and large, it appears that the best comparison among leases offered lies in figuring the cumulative total costs of each.

Procurement of leased equipment varies little from normal purchase policies, as **Fred Kurtz**, Los Angeles account executive of a prominent leasing firm, states: "The industrial firms whom we serve select their own equipment and purchase sources. It is only after they have decided what to buy and from whom to buy it, that we, as lease brokers, enter the picture. At this point we certify the financial stability of the prospective lessor, handle the re-

. . . continued on p. 79

M-H Pacemaker Idea - Western Packaging

Why made-in-the-West products need packaging-for-the-West

By Edw. H. Look

Vice Pres., Sales
Portco Corp.
Vancouver,
Wash.

THE INCREASING INTEREST shown by all levels of Western management in custom engineered packaging for Western industrial products is a challenge to those of us specializing in custom-made packaging.

Industrial packaging (packaging which is not a direct part of the selling appeal of a product) warrants a great deal more attention than it has received in the past—both from materials used and product protection.

The double-take that Western industry is giving this vital *cost* factor should result in ultimate good to all concerned.

This interest has had a real impetus here in the West, brought about by the remarkable growth by all phases of our Western development. It was not so very long ago when the bulk of the items used out here were manufactured in the East and shipped *prepackaged* to Western distribution points.

This is no longer true.

First, the ever-increasing population growth more than justifies manufacturing by Eastern firms in the West. Secondly, Western capital, realizing the potential, began to invest more heavily in its own manufacturing. Thirdly, of course, has been the ever-increasing freight rates which has made shipping from the East almost prohibitive.

Another important factor stimulating the growth of Western packaging is that the major expansion of big industry has been accompanied by a no less important secondary growth of smaller industrial firms to supply both the consumer and the needs of the large manufacturers. Almost without exception, all members of this group require the services of industrial packaging converters.

Although retail packaging has had a great dramatic growth from barrels of flour, bins of coffee, jars of cookies and many other forms of antiquated containers to present merchandising in highly decorated, exciting packages, industrial packaging, with few exceptions, has received little or no attention from either the manufacturer or his customer.

In the retail field, a wealth of advertising, design, color, and merchandising talent has long been an integral part of top management's decision in the proper packaging media; however, the responsibility for packaging products of our industrial manufacturer was long side-stepped by all and shared by none.

Consequently, the choice of packaging materials was left largely to the discretion of either a purchasing agent or a shipping foreman, neither of whom generally had the time or training to qualify themselves properly. Thus, many packages are either overpackaged or underpackaged.

As more and more companies have become more aware of damage claims on one hand and excessive packaging costs on the other, the responsibility for purchasing the proper packaging materials has become increasingly important. Many large companies have retained packaging engineers to head up their shipping department and smaller companies are indoctrinating their own shipping personnel in packaging value.

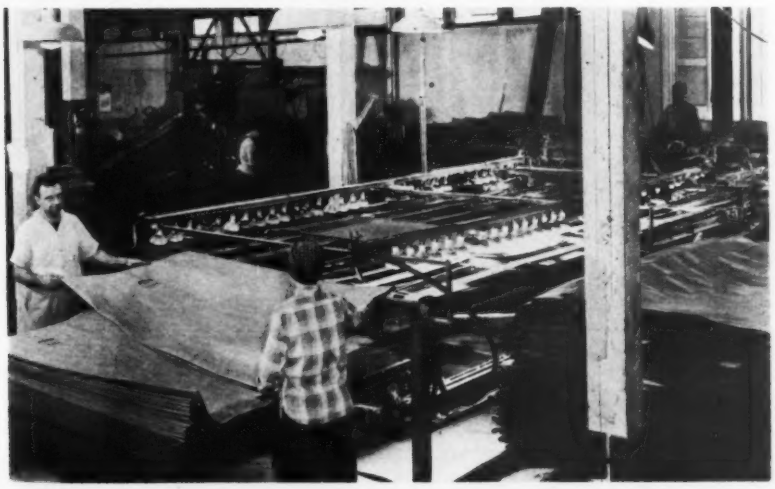
The *cost* of proper protection is, in the last analysis, the prime consideration in evaluating industrial packaging. This cost is an added or hidden expense in which there is little or no return. In retail merchandising, the cost of packaging is shared by both advertising and manufacturing budgets—to the extent that the original value of the product is often less than the cost of the package.

Industrial protective packaging, on the other hand, takes no such free ride and must justify its functional cost all the way, in transit from the manufacturer to the ultimate consumer.

To help meet the challenge of better and more economical protective packaging, there is now available a large line of industrial and building papers, as well as many combinations of asphalt, oiled, waxed, glass and fibre reinforced, coated, and otherwise

. . . continued on p. 79

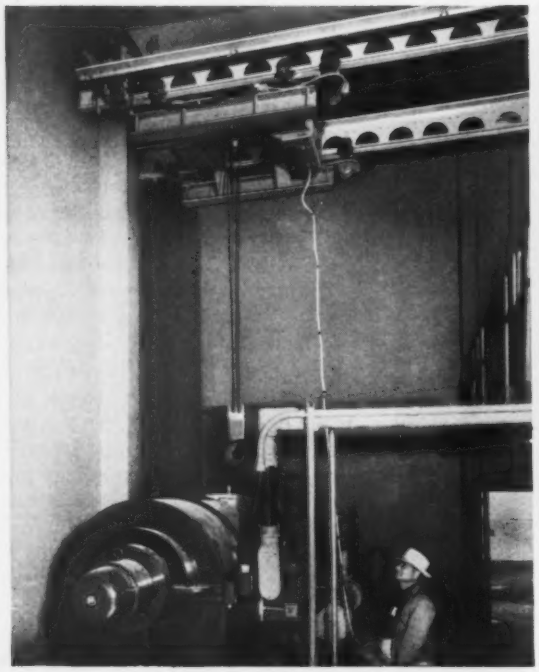
A WESTERN SPECIALTY item—mattresses—are shipped faster and more economically in these bags made by a Western custom packaging converter.



▲ **BURBANK, CALIF.**—10 ton Cleveland Tramrail transfer crane system serving the large Fuselage Assembly Dept. of **Lockheed Aircraft Corp.** Various components, as well as complete fuselages weighing over 10 tons with grab, are handled with the cab-operated cranes. In this building are made the world's largest commercial passenger planes, capable of flying 6300 miles non-stop.

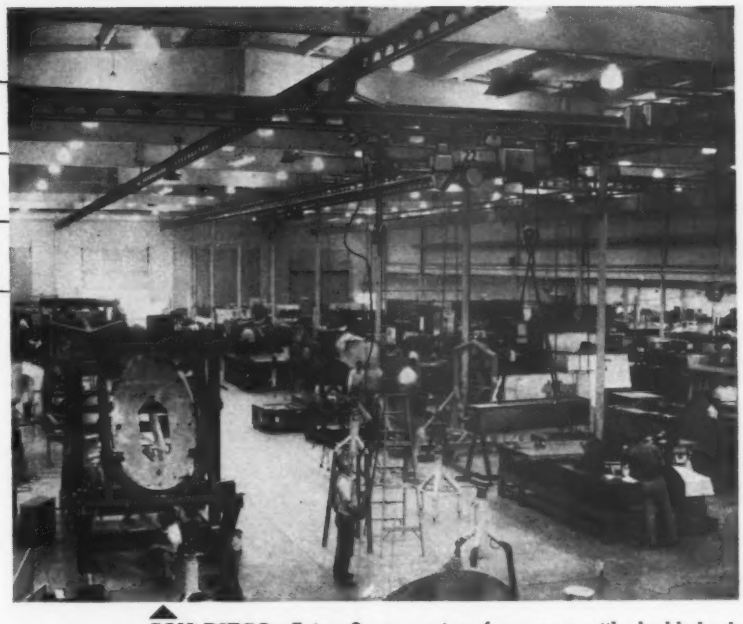
HAYWARD, CALIF.—The completely automatic water pumping station of the **City of Hayward** has a motorized, push-button-operated, double-girder Cleveland Tramrail crane of 7½ tons capacity for standby and maintenance service. The crane was of great help when the original pumping equipment was installed. It was designed to provide exceptionally high lift and is equipped with Safpowrbar electrification. The station has no attendants. It is located five miles from the City Hall, where various indicators provide information on operating pressure, flouride, etc. ▼

Western Industry Cleveland



▲ **LOS ANGELES**—Cleaning of various machined parts produced at **Duro Fittings Co.** is carried on in a fast, efficient manner by use of two Cleveland Tramrail hand-propelled carriers with electric hoists that travel on a track loop. The parts are carried in wire baskets and are dipped in one or more tanks of different cleaning solutions.

Above are some of the many western cities where extensive Cleveland Tramrail installations can be found.



SAN DIEGO—5 ton 3-runway transfer cranes with double-hook hoists in the Tooling and Mock-up Department of **Rohr Aircraft Co.** One hoist carrier serves both cranes. The control arrangement permits traveling a crane without a hoist carrier being on it. All motions are motorized and operated by push buttons. For more than a dozen years, Rohr has been the world's largest producer of power packages for aircraft.

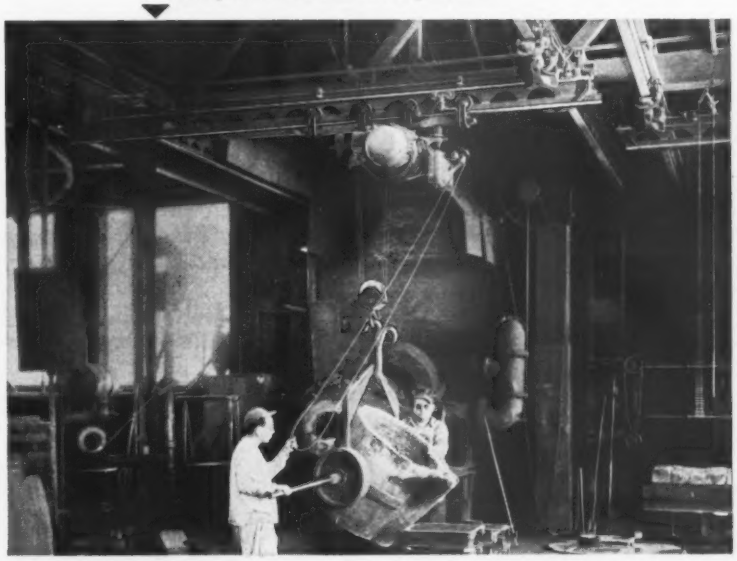
DENVER—A 2-ton Cleveland Tramrail transfer crane system has proven invaluable in the foundry of **The C. S. Card Iron Works Co.**, a leading manufacturer of mine cars for 65 years. The cranes enable fast, direct delivery of hot metal from cupola and convertor to molds. By interlocking two cranes together, a loaded carrier can be transferred from one to the other. This system is hand-propelled except for the motorized hoists. Original installation used for 16 years with extremely little maintenance required.

Profits with Tramrail

Cleveland Tramrail overhead materials handling equipment is in widespread use throughout the West, serving industries of every size and kind. Cleveland Tramrail is the Number One choice of so many because:

1. The equipment is built for hard service, easy operation, long life and minimum maintenance.
2. Capable engineering staffs located in the West are quickly available to provide help or advice based upon many years of experience.
3. Our Western Warehouse maintains a large stock of parts available for immediate delivery.
4. Much fitting and assembly work can be handled in the Western plant to speed erection and reduce installation costs.

Write for free Engineering and Application Booklet No. 2008. Packed with valuable information.



CLEVELAND TRAMRAIL

Overhead Materials Handling Equipment

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Cleveland Tramrail California Co. 6435 Corvette St. Los Angeles 22, Calif.	Nelson J. Leonard 5764 28th Ave., N.E. Seattle 5, Wash.	Cleveland Tramrail California Co. 870 Market Street San Francisco 2, Cal.	Cleveland Tramrail Denver Co. 1700 Fifteenth St. Denver, Colorado	Cleveland Tramrail Utah Division 334 W. 17 So. St. Salt Lake City, Utah

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. . . for more details, circle No. 34 on Reader Service Postcard

See listing in Directory Section

WESTERN M-H PACEMAKER IDEAS

Sand handling?? it's child's play with this setup!

SAND HANDLING may sound like fun to a kid . . . but to a foundry it presents a bulky, weighty material handling problem.

However, Pacific Steel Casting Co. of Berkeley, Calif., has turned sand handling into mere child's play. This success story starts after Pacific Steel receives the sand from deposits many miles from the foundry. Sand is dumped into concrete pits at Pacific Steel.

From the pits, the sand is jetted by air at the rate of 20 tons per hour up 40 ft. into the top of a large silo-like storage tank capable of holding two full carloads.

Pacific Steel has found that it is less costly to carry sand up by air stream than to use a conveyor belt. So the company built its own air jetting system using a corrugated iron tank, ordinary tubing and by tapping it's compressed air units.

Thus, when the air is forced through the tank and tubing, it carries sand along with it—much in the same way water carries sand as it rolls down stream.

After sand is lodged in the storage tank, it is transferred to the foundry proper at the rate of three tons per hour. The same jet principle is used, moving the sand through a three-in. pipe more than 100 ft. in length.

An immediate use storage bin is located over automatically registering scale hoppers where new and reclaimed raw sand starts through the blending process necessary to provide the company with its molding sand.

The "Handy Sandy"—a combination bin, elevator and hopper—provides sand to molding stations.

These weighing hoppers are equipped with pneumatic gates through which the dry sand flows into two large blending mills built on a mezzanine above the foundry floor. Blending ingredients such as bentonite, cereal binder, wood flour and water are added in carefully measured quantities . . . and the combination milled through a closely watched time cycle.

After proper consistency is obtained, the prepared molding sand is expelled into floor-level bins for transfer to molding stations throughout the foundry. At this point, scoop-equipped lift trucks start the molding sand through a new sand handling and reclaiming system designed especially for Pacific Steel Casting by the Newago Engineering Co. of Newago, Mich.

The prepared sand is dumped from lift truck scoops into a "Handy Sandy", a combination of bin, bucket elevator and hopper that provides overhead sand to the molding stations. Here, again, pneumatic gates allow each molder to gage accurately the proper flow of sand into machine mounted flasks.

After jolting and ramming, the finished molds are carried by roller conveyor and crane to the pouring floor where the molten steel is actually poured.

After cooling, larger molds are placed on a vibrating shakeout through which the used sand falls onto an underground conveyor. This conveyor starts the sand on a complete reclamation cycle requiring **only 1 min., 12 sec. from waste sand to ready-to-use reclaimed sand!**

A bucket elevator hoists waste sand from the conveyor up 50 ft. into a storage tower. The sand then goes through a series of "organ pipe" tubes, where jets of air scrub spent clay and binding agents from the sand.

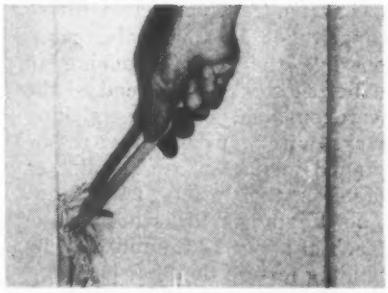
The scrubbed sand is blown into a cyclone tower where fines and clay are swirled off. These "impurities" fall into a tank and are carried off in a slurry.

Pure sand now drops into a hopper, and — completely reclaimed — is ready to start the blending process to become molding sand once again . . . just 1 min., 12 sec. from shakeout.

Better stacking adds extra space, peps up operations

TWENTY THOUSAND square feet of space was adequate for S&W Fine Foods in the Portland division warehouse when the

Swab Springtime into the dingiest washrooms, with new-formula STERILE. Here's super-efficient detergent action, combined with ANTISEPTIC IODINE. Nothing could work better or easier than STERILE. And you can tell right away. By the sparkle, by the fresh, clean smell, and by the time it saves your janitor. Call your EASTERDAY man now. STERILE with Antiseptic Iodine is his, exclusively.



No scrubbing. STERILE just rinses away dirt and odor

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company moved in as original tenants some ten years ago.

But in 1954 *George H. Swanson,* division manager, began to have a problem—the addition of new lines demanded more space for the 500 or 600 sizes and items of S&W grocery products.

Goods were stacked in steel frame picking racks four tiers high, going up to around 12 ft. with long 10-ft.-wide aisles between them. Merchandise was stacked on pallets and handled by a conventional fork lift truck which required the 10-ft. aisle width in which to turn. With that method of handling it was going to be necessary to go to a bigger warehouse, a costly move.

Swanson solved the problem, without the necessity of a major move, by replacing the lift truck they had been using with a Raymond Electric fork lift, Model E3ST-1.

With its close-coupled design, it is able to operate and maneuver handily in an aisle only 6 ft. wide. This made possible the addition of three more banks of picking racks without crowding or hampering smooth flow and movement of stock in and out of the warehouse. It amounted to the addition of 1,500 sq. ft. of usable warehouse area.

The truck, which has a lifting capacity of 3,000 lb., also made possible the closer stacking of palletted stock in one end of the warehouse beyond the picking racks where products are arranged in neat, straight piles as high as the rafters will allow. The Raymond lift truck has a reach of about 12 ft., and with its guiding feet on the floor being inserted alongside each stack, it is impossible for the stacks to get out of line or be piled up irregularly.

Pallets are stacked only two deep under the new system making it easier to keep all the stock in sight. This saves much time when taking inventories and helps greatly in preventing losses from misplacement.

Today S&W's Portland warehouse handles an average 30,000 lb. of goods a day in its serving of Oregon, and parts of Idaho and Washington. Manager Swanson says that under the present handling system it would be possible to handle a 10,000 to 15,000-lb. daily average increase with his present facilities and space.

With a reach of about 12 ft., this Raymond lift truck can stack 'em high at the S & W warehouse. Lifting capacity is 3,000 lb.

Your M-H expert has a mouthful of practical ideas

LISTEN TO YOUR material handling personnel!

This is advice I can give to all plant managers. Because these M-H experts can often save you time and money. Like they did in our plant. . .

For several years, the problem of storing materials was a serious

By M. R. Hicks
Production Manager
Fulton-Denver Co.
Denver, Colo.

one. After our bags were manufactured, they were baled in 500 to 1,000 bags per bale, weighing from 250 to 500 lbs.

Since our busy season began about August 1 and usually ran until March the following year, bags were made up on order during the slack season and stored.

As our storage space was very limited, it was necessary to stack bales as high as 8 or 10 ft. It was here our problem occurred.

Originally, the method was to man-handle the bales into their position on the stacks. Later this method was changed to stacking with a fork lift with flat forks, by lifting the bales and sliding them off onto the stack.

While this method was a great improvement over the original one, it was still slow and dangerous.

Then the suggestion of our material handling advisor caused us to equip our fork lift with a grab attachment. This allowed us to pick up a bale, then place it into position on a stack.

Whereas it used to take three men three hours to stack 50 bales, we can now stack the 50 bales in 45 minutes with the fork lift and grab attachment.

Furthermore, truck loading **has been speeded 500%** as the fork lift simply grabs the bales and carries them into the truck.

And the savings in money! The grab attachment (installed on an Automatic Skylift) costs approximately $400. **It is conservatively estimated that our savings amount to as much as $6,000 a year—not to mention the elimination of a hazardous job.**

I firmly believe that there are many firms that are not taking advantage of suggestions and advice of material handling personnel. Too few realize that the suggestion of a man who may have observed and corrected a problem similar to yours may mean the difference between profit and loss.

The saving at our plant is a good example.

(*Advertisement*)

ECONOMIC FACTS ON FASTENERS

COLD HEADING: A WAY TO CUT UNIT COSTS

- **Eliminates extra operations; faster than forging**
- **Metal flows to shape—without waste, without machining costs**

Here's a manufacturing fact often overlooked: The same machines that spill out large volumes of standard fasteners at surprisingly low cost can also produce *special* mechanical parts . . . also in volume and also at low cost.

It's surprising what an *expert* can do with cold heading machines. Some parts that would otherwise be two or more pieces are turned out as uniform, integral units. Parts that would otherwise require slower, costlier machining spout from the cold header with little or no scrap loss. What's more, the pieces are stronger.

Case Histories: (1) Eliminating double forging operation, high speed cold heading machine cuts and bends lengths from continuous rod to form shifter lever. It also gives greater strength, improved finish, closer tolerances. (2) Instead of a machined screw assembled with separate stamped screw driver shield, hose clamp screw is now cold headed in one piece. (3) No longer cut on screw machine, insert screw for plastics costs 40% less. Cold header uses just amount of metal required.

Call on the RB&W Fastener Man. He can tell you whether or not cold heading is feasible for producing your screw machine parts, forgings and small assemblies. If so, RB&W facilities can handle your volume needs. Russell, Burdsall & Ward Bolt and Nut Company, P. O. Box 3336—Terminal Annex, Los Angeles 54, California.

113th year

RB&W

SERVING THE WEST FROM THE WEST

Plants at: Los Angeles, Calif.; Rock Falls, Ill.; Coraopolis, Pa.; Port Chester, N. Y. **Additional sales offices at:** San Francisco; Dallas; Chicago; Detroit; Pittsburgh; Ardmore (Phila.), Pa. **Sales agents at** Denver; Fargo; New Orleans; Milwaukee. **Distributors** from coast to coast.

Spin-Lock Screws Eliminate Washers

Ratchet action teeth on Spin-Lock Screws bite into the seat of any surface the screw is driven into. Their tight hold requires about 20 per cent more torque to loosen than to tighten. With this strong grip, separate washers or other locking devices are unnecessary. One-piece Spin-Lock construction gives faster assembly, lowers inventory needs—and affords fasteners that will stay tight in products subjected to vibration or repeated heating and cooling. Send for bulletin.

12-point fasteners cut wrench clearance space

Double hex RB&W bolts and nuts measure smaller across their points than single hex fasteners. Used with an external socket wrench, they permit optimum driving torque to be applied.

Thus, while fitting cramped spaces in compact assemblies, these fasteners also assure proper preloading for *stronger* connections.

Available with plain flange, or SPIN-LOCK design.

RB&W FASTENERS—STRONG POINT OF ANY ASSEMBLY

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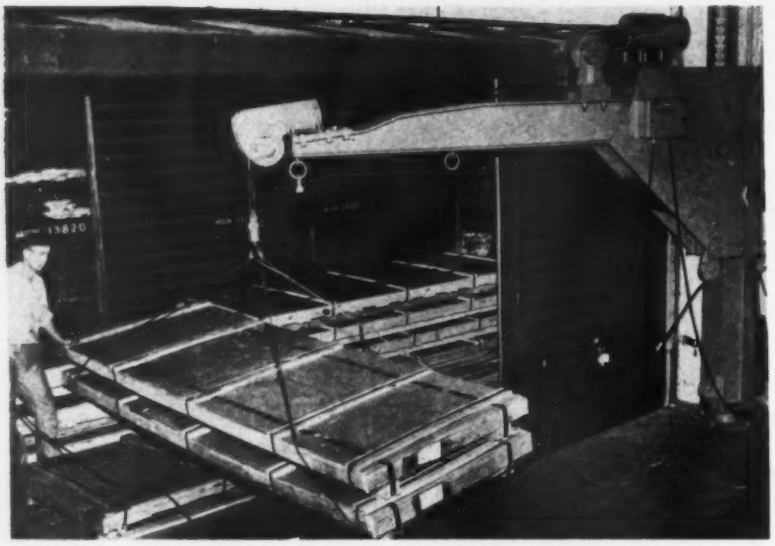


THE NEW WAY with the jib crane. Operator has full control of situation and is completely safe. And it's paying off in speed and efficiency.

This new M-H unloading system is paying off at three to one

By Earl F. Myers
Superintendent
Pacific Metal Co.
Seattle

THREE TO ONE makes pretty good odds. So that's why we put our money on a new jib crane—and cut our handling time from three to one.

The new crane is used to hoist 4,000-lb. skids of aluminum out of box cars and into storage areas.

Look at the before and after pictures. Doesn't the new way look easier? In the old way, two men had to use a bridge crane hooked up with block and tackle. Not very safe; not very easy; and not very fast.

But with the new way, work is done safely, easily and in one-third the time.

The crane is located on the way inside the building and extends through the doorway. The operator can take the extension cord inside the car, having full control of the safety of the operation.

And with the crane's capacity of five tons and its boom height of 16 ft., every job in our plant can be handled easily. Also, the jib crane frees the bridge crane for other work more suited to it.

Yes, our $2,700 investment in this jib crane manufactured by Young Iron Works, Seattle, is paying us off—three to one.

THE OLD WAY. Two men had to use a bridge crane hooked with block and tackle and skid out crates. Not very safe . . . and not very fast or efficient. But now bridge crane is being put to proper use as new jib crane (above) takes over.

One big package moves faster than several small ones

IT'S EASIER to strap a lot of small items into one big package and move that . . . than to move a lot of small packages.

That's what American Home Foods, Division of American Home Products Corp., Oakland, Calif., found out.

Now No. 10 cans of tomato paste are securely unitized—336 to a pallet—with steel strapping in preparation for cross-country, inter-plant shipment. With a lift truck, the tightly strapped units are loaded into boxcars in far less time than when individual cases were stacked by hand.

Loading costs have been cut 50% . . . individual case cost down

Steel strapping enters the picture here, as it binds together 336 cans of tomato paste into a unitized load. Shipping, case and damage costs down.

50% . . . and for more than 300 carloads, the damage percentage was .0017%.

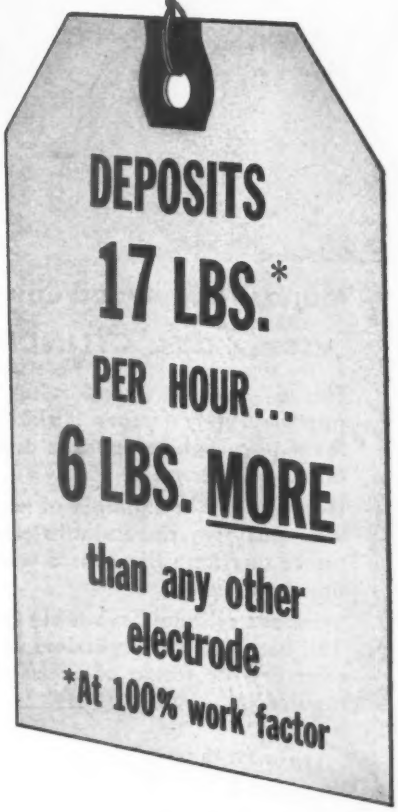
Here's how the system works:

Step 1—A corrugated tray is placed on the pallet, and the first layer of 48 cans stacked on it. Another tray is placed on top of the first layer. Succeeding layers are stacked in the same manner. The top (seventh) layer is covered with a corrugated sheet.

Step 2—Three girthwise straps and two lengthwise straps are applied to the unit. Acme Steelstrap.

AIRCO ANNOUNCES THE FASTEST ELECTRODE ON THE MARKET

AIRCO EASYARC® 30



This new mild steel electrode—the latest addition to Airco's complete line of electrodes—deposits 17 pounds of metal per hour at 100% work factor—*six pounds faster per hour than yesterday's best.* The extra-heavy iron powder covering permits high machine settings (450 amps AC) for high welding speeds.

Easyarc 30 is designed for making positioned fillets or butt welds. Steady spray-type transfer, easy slag removal. The unusually high deposition rate, together with outstanding X-ray and mechanical properties, makes Easyarc 30 an ideal electrode for high speed welding of pressure vessels, machine bases and structural weldments. Available in ¼" diameter, standard 18" length. Contact your nearest Airco office, or write to address below for complete information and free samples.

AIRCO®

AIR REDUCTION PACIFIC COMPANY

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Western Headquarters for Oxygen, Acetylene and Other Gases . . . Carbide . . . Gas Welding and Cutting Machines, Apparatus and Supplies . . . Arc Welders, Electrodes and Accessories

Air Reduction Pacific Company is a division of Air Reduction Company, Incorporated. Principal products of other divisions include: PURECO — carbon dioxide — gaseous, liquid, solid ("DRY-ICE") • OHIO — medical gases and hospital equipment • NATIONAL CARBIDE — pipeline acetylene and calcium carbide • AIRCO — acetylenic chemicals • COLTON — polyvinyl-acetates, — alcohols, and other synthetic resins.

. . . for more details, circle No. 37 on Reader Service Postcard

HOW MUCH CYLINDER POWER DO YOU NEED?

Manasha Plywood Corp., North Bend, Ore., uses *Ledeen* CYLINDERS on log kickers.

This 6" Ledeen Cylinder has been in operation for approximately 4 years. It picks up short logs and stacks them two high, or pushes one or two layers of logs ahead with ease.

Here is another example of how Ledeen Cylinders provide positive, dependable power—with low maintenance and long life—for a wide variety of uses in the timber industry.

Standard cylinders available from stock in 1½" through 12" bores. Special cylinders up to 20". These cylinders offer a wide range of capacities to meet your power requirements.

How much CYLINDER power do YOU need?

Ledeen CYLINDER CAPACITIES

CAPACITY OF CYLINDERS FOR VARIOUS PRESSURES, LBS. PER SQUARE INCH

Dia. of Cylinder	50	60	70	80	90	100	150	200	300	400	500	600	700	1000	1500	2000	3000
1½"	60	72	83	95	107	117	131	195	262								
2"	126	152	189	216	242	270	405	540	810	1,080	1,350	1,620	2,000	2,700	4,050	5,400	8,100
3"	216	270	405	540	675	808	945	1,216	1,884	2,512	3,140	3,828	4,710	6,280	9,420	12,560	18,840
4"	360	480	795	960	1,080	1,134	1,701	2,268	3,402	4,536	5,670	6,804	8,300	11,340	16,740	22,680	34,020
5"	1,200	1,800	1,884	2,121	2,880	2,601	3,975	5,302	7,952	10,604	13,255	15,906	19,880	26,510	39,765	53,020	79,530
6"	2,286	2,827	3,097	3,769	4,390	4,712	7,068	9,424	14,136	18,848	23,560	28,272	35,340	47,120	70,680	94,240	141,360
10"	5,601	6,416	7,134	8,890	6,657	7,365	11,045	14,726	22,089	29,453	36,810	44,178	55,225	73,630	110,445	147,260	220,890
12"	8,300	9,360	10,400	8,480	9,540	10,600	15,906	21,200	31,800	42,412	53,000	63,618	79,520	106,030	159,045	212,060	318,090

Service pressure ratings are based upon one to five psi. Full expansion of pressure over 1000 p.s.i. will vary according to water and dissolve temperatures. Pulling capacity will be slightly higher. Some cylinders having capacity 20% to 75% greater than that shown.

Ledeen Standard Cylinders are available in diameters from 1½" through 12" based cylinders are available up to 20" in diameter.
Ledeen Cylinders are available in Stainless Steel, Nitro Iron and Super Iron construction.

Supporting an application, Ledeen Tech advisors are rated for service up to 500 PSI. Nitro Iron up to 400 PSI, and Super Iron up to 750 PSI. Higher pressure cylinders are available on special orders. Write for Bulletin 500.

Ledeen Mfg. Co. 1400 SO. SAN GABRIEL ST., EL MONTE 17, CALIFORNIA

Send for this cylinder capacity chart. It will help you determine the size Ledeen Cylinder you need to meet your power requirements.

Write for Bulletin 500

Ledeen Mfg. Co.
3340 North Gilman Road
El Monte, California

VALVES • CYLINDERS
VALVE ACTUATORS
AIR-HYDRAULIC PUMPS AND BOOSTERS

See listing in Directory Section

. . . for more details, circle No. 38 on Reader Service Postcard

¾ x .015 in., is used. Straps are tensioned with a pneumatic stretcher, then sealed with a sealer and seals.

Step 3—After strapping, units are moved to storage or to freight cars by lift truck.

And unitized loads are welcomed on the receiving end, too—for mechanical unloading is accomplished in a fraction of the time formerly required.

Fork lift operation saves 16 man-hours, jumps output 20%

THEY ALSO SERVE who only stand and wait.

Like the Hyster trucks at the Union Oil terminal in Los Angeles, which stand and wait with outstretched rubber coated arms and 26-in. pallet forks, to save 16 man-hours a day and increase output up to 20%.

Three Hyster 2,000-lb. lift trucks, all with 9-ft. lifts and hydraulic load grabs, work in the shipping department, lube room and grease warehouse. They load and unload road trucks, haul drums from filling meters to storage, and stack palletized cases in the warehouse.

As well as handling drums of additive to and from the hot box, the lift trucks have improved the safety record, previously impaired because of old fashioned handling methods.

Loading two drums from storage to truck with 2,000-lb. Hyster lift trucks equipped with load-grab. Truck designed for operator comfort . . . reducing fatigue and increasing production.

Get *SuperMarket* hydraulic service at your DENISON branch office

1. BRING US YOUR PROBLEM...
whatever hydraulic problem has you stumped. A trained Denison Hydraulic Specialist is ready to sit down with you and analyze your problem.

2. WE'LL DEVELOP YOUR CIRCUIT...
the most efficient hydraulic circuit to handle your specific needs. We can do this while you wait.

3. PICK OUT WHAT YOU NEED...
right off the shelf — from Denison's complete stock of hydraulic pumps, motors, valves and controls to 5000 psi.

4. TAKE HOME YOUR COMPLETE HYDRAULIC SYSTEM...
ready to go to work for you! Complete hydraulic circuit drawings and hydraulic parts are "under your arm" in a *complete package.*

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DENISON HydrOILics

HYDRAULIC PRESSES • PUMPS MOTORS • CONTROLS

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DENISON ENGINEERING DIVISION
American Brake Shoe Co.

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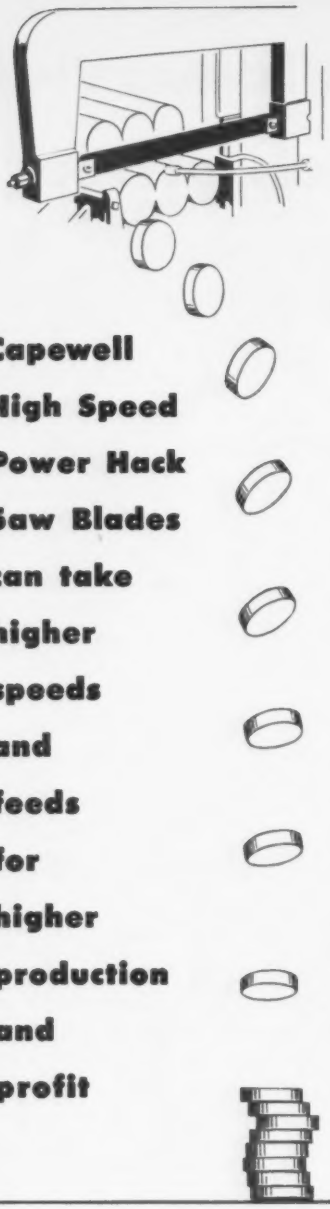
- **DETROIT** 912 South Woodward Avenue Birmingham, Michigan
- **HOUSTON** 2501 Bartlett Street Houston 6, Texas
- **CLEVELAND** 5530 State Road Cleveland 34, Ohio
- **CHICAGO** 7000 West 63rd St. Chicago 38, Illinois
- **ATLANTA** 309 East Paces Ferry Rd., N.E. Atlanta 6, Georgia
- **NEWARK** 315 Central Avenue Clark, New Jersey
- **COLUMBUS** 1160 Dublin Road Columbus 16, Ohio

. . . for more details, circle No. 39 on Reader Service Postcard



Capewell High Speed Power Hack Saw Blades can take higher speeds and feeds for higher production and profit

3 TYPES FOR EVERY PURPOSE

TECHNITE · HIGH SPEED · SAFETECH

See Your Capewell Distributor

CAPEWELL

THE CAPEWELL MFG. CO.
HARTFORD 2, CONN.

. . . for more details, circle No. 40

Handle carefully: this 3-ton monster is very delicate!

MOVING OUR ONLY Earth Satellite Tracking Camera — a three-ton monster as delicate as it was unwieldy—presented a tough moving job for Bekins Van and Storage Co.

But the Bekins people solved the problem by securing the camera with two-in. nylon webbing, heavy duty Weblock straps . . . which have a minimum breaking strength of up to 3,500 lb.

And off the camera went—safe and secure—in its ride from Pasadena, Calif. to White Sands, N.M.

Convair in San Diego had a different problem. It needed a small strap to hold frame dollies for its turbojet liner. So Convair engineers ordered one-in. nylon webbing straps. These small straps actually have minimum buckle assembly breaking strengths of 1,700 lbs.

Hughes Aircraft uses the smallest Weblocks—5/8 in. size — for numerous intra-plant applications. Small Weblock straps hold frames together, tie down radio and electronic equipment, etc.

Tension-locking Weblock straps keep a firm grip on everything from pianos to our only earth satellite tracking camera.

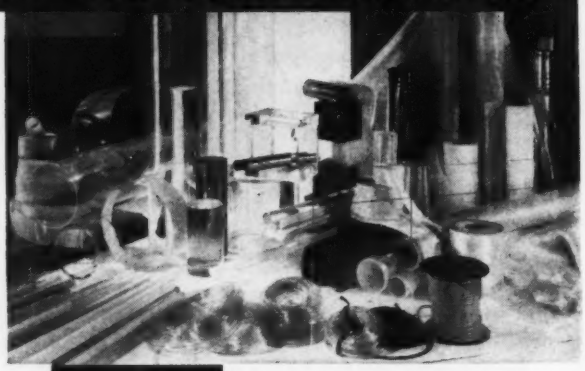
What are Weblock straps?

A Weblock is a webbing strap with a buckle. The secret is in the clinching and locking mechanism of the buckle. The force exerted by load of the webbing sets the cam. There is no spring to malfunction and allow the buckle to slip.

The buckle was designed and is being manufactured and distributed by the General Logistics Division, Aeroquip Corp., Pasadena, Calif.

CADILLAC HAS EVERYTHING IN PLASTIC

America's Largest Plastic Source for Industry



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our "CADCO" brand

We manufacture a wide variety of "Cadco" cast acrylic rods, tubes, block and extruded sheet—optically clear and colors.

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10 WAREHOUSES TO SERVE YOU IN U. S.

. . . for more details, circle No. 41 on Reader Service Postcard

Another **STANLEY STEEL STRAPPLICATION*** on the job

Power easily makes 3 times 16 equal ONE

3 tiers of cylinder head forgings, 16 forgings to a tier, make a sum total of 48. But secured to a pallet by the Stanley "Uni-Tie" Method, all 48 become ONE compact package, easier for this Cleveland manufacturer to handle, store and ship. Using the Stanley Electric Skid Magazine Power Tool, every strap is effortlessly and speedily *power*-tightened to the same pre-determined tension, so there's no danger of the strapping loosening or the load shifting.

Perhaps teaming up the Stanley "Uni-Tie" Method with *power packaging* is the way for *you* to save time, space, man-power or eliminate costly containers. WRITE FOR FREE COPIES of the new "Power Strapplications" booklet and the "Stanley Strapplication Manual of Packaging and Shipping" to STANLEY STEEL STRAPPING, Division of The Stanley Works, Dept. D, 1303 Corbin Avenue, New Britain, Conn.

The system-atic way to solve specific packaging and shipping problems

INSURE IT—SECURE IT—WITH STANLEY STEEL STRAPPING

AMERICA BUILDS BETTER AND LIVES BETTER WITH STANLEY

STANLEY

This famous trademark distinguishes over 20,000 quality products of The Stanley Works—hand and electric tools • drapery, industrial and builders hardware • door controls • aluminum windows • metal parts • coatings • steel and steel strapping—made in 24 Stanley plants in the United States, Canada, England and Germany

. . . for more details, circle No. 42 on Reader Service Postcard
See listing in Directory Section

Remote reading tension cell over bull ladle gives exact amount of pour. 10,000-lb. capacity system has negative reading dial.

For best results measure carefully when pouring steel

HANFORD FOUNDRY, San Bernardino, Calif., is looking forward to an anticipated 20-25% savings in labor and material with the installation of a new remote reading tension cell over its bull ladle used to pour steel.

And guesswork is a thing of the past.

The 10,000-lb. capacity tension system is equipped with a batching dial that is unique because of its positive and negative reading dial. The positive dial indicates weight of material being added; the negative dial the weight of material poured off.

The advantage of the combination dial is that the operator is able to fill the ladle to a predetermined weight . . . and during pouring knows exactly the amount of metal poured for each casting.

Prior to installation of the unit, the operator had to overmelt an extra amount of steel to avoid having too little metal for a scheduled run of castings. Now, by watching the dial, he can fill the ladle to his exact needs . . . and is able to keep a running inventory on how much metal remains after each pour.

The Martin-Decker Corp. tension cell system features low headroom loss, ability to withstand the 2,000-deg.-plus heat, and is adaptable to remote applications.

call Johnson Gear

Whether you need just one gear or a production run, we're fully equipped to meet your specifications exactly.

WE CUT: SPUR • HERRINGBONE • WORM
HELICAL • STRAIGHT & SPIRAL BEVEL
SPROCKETS • RACKS

Every gear we cut for you is a product of more than 50 years of experience in the manufacture of high quality gearing. We engineer to American Gear Manufacturers' Association standards for leading firms thruout the West. Our 100% inspection policy – every gear inspected – assures exact compliance with your specifications.

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MAKERS OF FINE GEARS SINCE 1904

2

. . . for more details, circle No. 43 on Reader Service Postcard

Two pairs of lifters solve twin problems at automobile plant

HANDLING AND STORING automobile motors would be quite a problem at General Motor's B-O-P Plant, South Gate, Calif., without the help of two pairs of electric-hydraulic lifters.

Steps in handling have been reduced from seven to three within a centralized 100 x 150-ft. storage area, at the same time speeding up the over-all operation and helping to eliminate any errors in selection of the proper motor.

Incoming motors on dollies are picked up at the railroad siding and taken to the storage racks by one of the two lifters which rides on tracks on four V-grooved wheels, with the operator riding a caged platform at the rear.

At the proper storage rack the loaded platform is positioned at the same height as the rack, while

cams automatically index it for really accurate alignment. A 4-deg. tilt starts the motor rolling into the track, with spring-load cushions breaking the impact of one dolly ramming another.

When a motor is needed for assembly, it is removed from the opposite side of the rack and picked up by one of the two lifters serving this area which, also riding on tracks, delivers them to the assembly line.

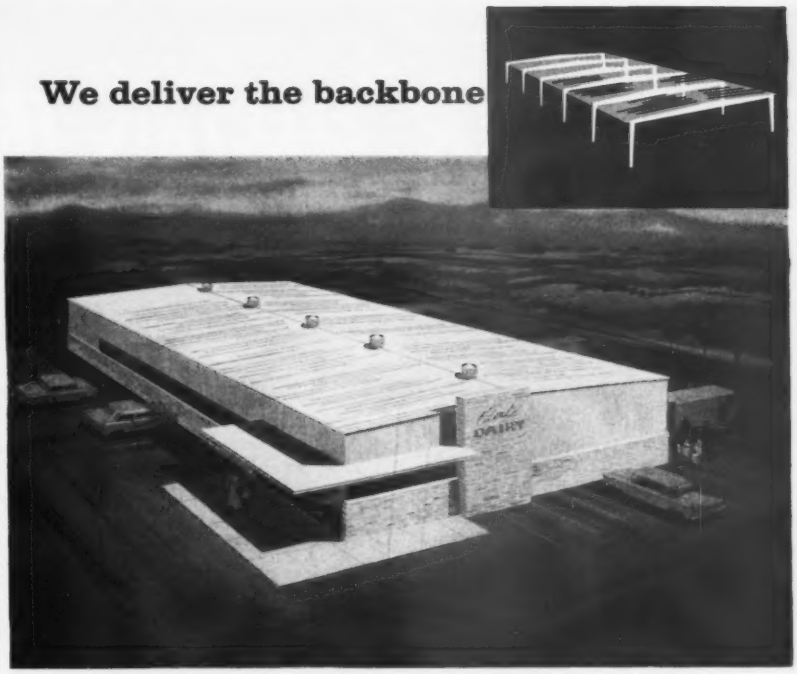
The "in" lifters' platforms have 110-in. lifts, 30 fpm. lift speed and a rated capacity of 1,500 lb. The units are driven by a non-skid rubber-tired wheel at the rear center at speeds up to 320 fpm.

Before installation of the new system, motors were received in box cars and were handled out of them by an air hoist and stacked three to a rack in tiering racks. The motors were then taken to a central storage area where they were tiered five-high by fork trucks. Then, as needed, they were taken to a producing storage area, where they sat one-high on the floor.

Now, thanks to the electric-hydraulic lifters, designed and manufactured by Colson Corp., Somerville, Mass., handling and storing motors has become a fast, easy flowing pleasure — and a saving.

Handling and storing of automobile motors is no longer a problem as these electric-hydraulic lifters enter the picture.

We deliver the backbone



you choose the exterior

New low-cost, low-profile Pascoe Buildings are pre-engineered to provide the permanence of traditional construction at a fraction of the usual time and cost.

Any type of finish – including tilt-up concrete and masonry walls – can be used with Pascoe's basic steel structure. You can select the exterior finish best suited to your needs . . . for plants and warehouses . . . as well as supermarkets . showrooms . bowling alleys . . . amusement centers.

For an entirely new kind of attractiveness in metal buildings, see the newly designed Pascoe Panels. Their clear-cut shadow lines provide a handsome wall surface . when used exclusively or in combination with other finishing materials. Their new-type ribs make Pascoe Panels three times as rigid as conventional corrugated sheets.

Send today for a free Pascoe Cost Calculator

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METAL BUILDINGS · ROOF STRUCTURES
PASCOE PANELS

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☐ Please send me New Illustrated Planning Guide
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CITY _____ ZONE ____ STATE _____

. . . for more details, circle No. 44 on Reader Service Postcard

ELPAR ELECTRIC TRUCKS...

Save $1,200 Per Truck Per Year

Cost surveys made at a number of plants reveal that ELPAR electric trucks cost one-third less to operate and maintain than comparable gas models. Based on 2,000 hours of operation, this means an average saving of more than $1,200 per truck per year.

In addition, ELPAR electrics give twice as many years of dependable service as gas trucks operating under similar conditions. Thus, when *all* initial and replacement costs are added up, ELPAR electric trucks actually cost *less* to buy.

And, the surveys show that average downtime for ELPAR electrics is 2 to 3% while that for gas trucks is 10 to 15%.

More and more companies are converting their fleets to dependable, fume-free ELPAR trucks. Join the trend. Choose from our complete line of fork and ram trucks, low lift and high lift platform trucks, and mobile cranes—and save on *first* cost and *operating* cost. Get all the facts. . .

WRITE FOR YOUR COPIES
of the ELPAR *Lift,* "Gas vs. Electric Trucks" and "LP-Gas vs. Electric Trucks."

ELPAR®
ELECTRIC TRUCKS

ELWELL-PARKER ELECTRIC CO. WESTERN REPRESENTATIVES:
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Seattle COLBY STEEL & MFG. INC., 3155 Elliott Ave.

Twice the Life . . . 1/3rd the Operating Costs

. . . for more details, circle No. 45 on Reader Service Postcard
See listing in Directory Section

M-H SHOW PREVIEW

Who's exhibiting What at L. A. Show

ACORN WIRE & IRON WORKS, 1709 West Eighth St., Los Angeles.
Booth: 712
Products featured: Wire mesh partitions, folding gates.
Personnel at booth: S. A. Cole, C. A. Berkey.

ALEMITE CO. OF SOUTHERN CALIFORNIA, Hope at Washington, Los Angeles, Calif.
Booth: 234
Products featured: Alemite Versatal material handling equipment. Alemite Surgepruf line of hydraulic hose and couplings, Alemite Centralized system known as Accumite, Trolley Lubricator —adapted to material conveyor systems.
Personnel at booth: J. W. Frier, sales mgr.; plus periodic attendance by the entire industrial sales engineering staff of Alemite.
Special features at booth: Products will be displayed so as to show their features and actual adaptation to Industry's use.

AMERICAN MARC, INC., 1601 W. Florence Ave., Inglewood, Calif.
Booth: 220
Products featured: Air and water-cooled diesel engines, 6 to 14 hp.
Special usefulness in Western plants: Power source for material handling equipment.
Personnel at booth: R. G. Livingston, ass't. sales mgr.; **Thos. Maxwell,** promotion mgr.; **Lloyd Berry,** vice pres., sales.
Special features at booth: Cutaway engine with all parts moving.

AMERICAN MONORAIL CO.
Booth: 510, 511, 512, 513
Products featured: Landahl chainless conveyor.
Special usefulness in Western plants: Continuous conveying of light loads particularly through cleaning, etching, plating, spraying, drying.
Personnel at booth: C. F. Bell, vice pres., marketing; **Carl L. Sheets,** vice pres., Landahl div.; **L. P. Helbert,** sales mgr., Pacific Coast div.; **R. E. Chubbuck,** dist. mgr., Los Angeles dist.

ANDREWS HARDWARE & METAL CO., 334 So. Main St., Los Angeles.
Booth: 122
Products featured: Boston gear products, including gears, sprockets, chains, speed reducers, bearings, and pillow blocks.
Personnel at booth: Ed Freck, Boston Gear sales engineer; **George Hill,** sales engineer, Andrews Hardware & Metal Co.; **J. C. Guhl,** director of public relations, Andrews Hardware & Metal Co.
Special features at booth: A variable-speed drive unit will be in action.

THE BASSICK CO., Bridgeport 5, Conn.
Booth: 214
Products featured: Complete line of heavy, medium and light duty casters for industry. Sealed wheel and bearing casters will be featured, along with floating hub shock absorbing casters.
Personnel at booth: A. J. Israel, P. Semler, L. P. Garner, O. W. Ruddy and **L. J. Gallagher.**

W. T. BILLARD, INC., 734 East Third St., Los Angeles.
Booth: 319, 320, 321
Products featured: Raymond electric fork trucks, Raymond hydraulic hand lift pallet trucks, Raymond die tables, Magliner magnesium dockboards, Thomas hand trucks, Darnell casters.
Personnel at booth: W. T. Billard, pres.; **Lloyd Johnson,** sales; **W. G. Billard,** sales; **Don Murray,** sales.

BLAIR-MARTIN CO., INC., 905 Mission St., South Pasadena, Calif.
Booth: 101-103
Products featured: Deluxe metal shelving, Myers truck and caster line; Vac-u-lift equipment, casters, wheels.
Personnel at booth: F. D. Blair, pres.; **Gail Stephenson,** salesman; **Lee W. Robinson,** salesman; **Mert Malham,** salesman; **Bill Deckard,** salesman.

THE BOMAN Co., 3316 E. Olympic Blvd., Los Angeles, Calif.
Booth: 673
Products featured: Replacement parts for Clark-Hyster Towmotor, BT pallet trucks.
Personnel at booth: Lewis J. Roberts, T. Wasserman, A. B. Bolotin.

ROBERT H. BRAUN CO., 5519 Jillson St., Los Angeles, Calif.
Booth: 648 through 667.
Products featured: Clark forklift trucks, Powrworkers, new electric Clark fork truck, new and special heavy duty towing tractor and rough terrain truck, Coles crane, Monarch, Notat and Disowheels, Acme Steel's Dexion slotted angle, new Clark triple upright assembly.
Personnel at booth: Robert H. Braun, Sr., pres., Robert H. Braun Co.; **Don S. Ferguson,** vice pres., **Braun, Jr.,** vice pres. Robert H. Braun Co.; **Robert Warns,** Dexion division of Acme Steel; **R. N. Speiser,** Western sales representative for Disogrin; **Don Roach,** Western region mgr. for Monarch Rubber Co.; **L. A. DePolis,** director of sales, Clark Equipment; **John Beicher,** Clark Western region mgr.
Special features at booth: Actual demonstrations of equipment mentioned above. Information and literature.

BURNABY AND WILLIAMS, 15220 Erwin St., Van Nuys, Calif.
Booth: Outside
Products featured: Gerlinger Carrier Co. lift trucks with capacities of 8,000 to 40,000 lb.
Personnel at booth: Beicher Atkinson, partner; **R. M. McCalley, James Scribner,** and **Jack Toedt,** salesmen.
Special features at booth: Two

machines, posters, photographs, literature, etc.

CAL-STATE DISTRIBUTORS, INC., 8928 So. Figueroa St., Los Angeles.

Booth: 243-244

Products featured: International Staple & Machine Co. carton stapling equipment; Weber Addressing Machine Co. equipment; American Machine Works preformed carton staples and electric wire stitchers; Ideal Stencil Machine Co. line of shipping dept. equipment — stencil machines, electric tape machines and stenciling and marking equipment; Vail Manufacturing Co. Vulcan stapling hammers; American Pulley Co. "in between" material handling equipment line.

Personnel at booth: Jack W. McDonald, gen. mgr.; **Bob Christian,** sales mgr.; **M. R. McAllister,** operations mgr.; **R. L. Williamson, Art Weber, George Reneau, Gail Heinlein, Don Lawrence, Jim Kerr,** sales engineers.

CASEY-METCALF MACHINERY CO., INC., 5515 East Slauson Ave., Los Angeles.

Booth: 451-452

Products featured: Hughes-Keenan Roustabout crane.

Personnel at booth: T. D. Casey, pres.-sales mgr.; **J. R. Gunn,** parts mgr.; **Edward Mazenko,** service mgr.; **R. T. Casey,** sales dept.

C & D BATTERIES, INC.

Booth: 640

Products featured: Industrial electric truck batteries featuring new 72-ampere-positive, C & D Auto-reg 6-cell automatic charger.

Personnel at booth: George J. DeBroeck, Elwood Gieg, Donald Elkerton, Frank T. Butler, (San Diego), **Fred Pelletier.**

Special features at booth: New exhibit featuring Hi-impact battery jars and covers.

CHAINVEYOR CORP., 5618 E. Washington Blvd., Los Angeles.

Booth: 120-121

Products featured: Overhead conveyor.

Personnel at booth: Patrick T. Rauen, pres.; **James N. Rauen,** vice pres.; **E. Russell,** Western sales mgr.; **Frank G. Birkhead,** chief engineer; **C. L. Long,** factory mgr.

WHAT'S SHE EXHIBITING? Oh, just herself, we guess. You see, she's Jeanne Carmen, Queen of the Western Material Handling Show. So you'll see her around. Might get some handling or packaging ideas.

CLARK EQUIPMENT CO., Battle Creek, Mich., and **ROBERT H. BRAUN CO.,** 5519 Jillson St., Los Angeles, Calif.

Booth: 652-667 and an outdoor space.

Products featured: Fork trucks, powered hand Straddle Stacker, towing tractors.

Personnel at booth: Robert H. Braun Co.: **Robert H. Braun, Sr.,** pres.; **Don S. Ferguson,** vice pres., sales; **Robert H. Braun, Jr.,** vice pres. and treas.; **Russell L. Pooler,** sales mgr.; **Carl McGrath,** used truck and rental mgr. Clark Equipment Co.: **Bill Kelly,** product mgr., eletric truck division; **Bob Tobin,** product mgr., gas truck division; **Marv Dickey,** sales mgr., Ross carrier division.

Special features at booth: Exhibits will be set up to demonstrate the operation of materials handling equipment, the new triple stage upright, mobile service fleets, and the operation of large fork trucks.

THE COLORADO FUEL AND IRON CORP., P. O. Box 1920, Denver, Colo.

Booth 703-704

Products featured: Kargo-Pal folding container pallets, wire rope slings, metal processing belts.

Personnel at booth: J. P. Brehm, Jack R. Smolenske.

COLSON EQUIPMENT & SUPPLY CO., 1317 Willow St., Los Angeles, Calif.

Booth: 111-114

Products featured: Light and heavy duty casters; steel, aluminum, rubber-tired, pneumatic, and plastic wheels; Liftrucks, Lift-Jacks, barrel handlers, stock carts; hydraulic lifting equipment; conveyors.

Personnel at booth: George Cherry, gen. mgr.; **Henry Boone,** gen. sales mgr.; **John Schippers,** sales mgr. for Southern Calif.

Special features at booth: A belt conveyor and two hydraulic lifters will be in operation all of the time.

CONTINENTAL MOTORS CORP., 205 Market St., Muskegon, Mich.

Booth: 240

Products featured: Internal combustion engines and service parts.

Personnel at booth: Frank Shanahan, sales engineer; **G. L. Hitchcock,** service engineer.

CRANE HOIST ENGINEERING CORP., 6515 Salt Lake Ave., Bell, Calif.

Booth: 315, 316, 317

Products featured: Heavy-duty "Tram-Chief" underhung crane, Shepard-Niles hoists, crane electrification, section of a top-riding crane with complete crane trolleys.

Personnel at booth: Chet Mason, pres.; **Wm. Mowat,** vice pres.; **Robert Underwood,** development engineer; **John Wagers,** chief estimator; **James Stinson,** chief engineer; **Charles Wasiloff,** sales mgr.

Special features at booth: The underhung crane will be available for actual operation.

CROMER MANUFACTURING & ENGINEERING, INC., 2138 East 88th St., Los Angeles.

Booth: 307, 308

Products featured: Model 1000

(*Advertisement*)

LINK-BELT offers one source for a broad range of materials handling equipment

Everywhere industry uses Link-Belt equipment — conveyors, elevators, feeders, screens, dryers and other materials handling and power transmission products — to increase production and lower operating costs. Here's a unique all-inclusive service . . . a broad, quality line backed by unequalled application experience.

No matter what you need in conveying or power transmission machinery, you're sure to find it in the complete Link-Belt line. And, if desired, we'll design, equip and erect the entire installation . . . and accept full responsibility for placing your system in successful operation.

For full information, call your Link-Belt representative. Or write for catalogs. Address: Dept. 458-WI

LINK-BELT

MATERIALS HANDLING EQUIPMENT

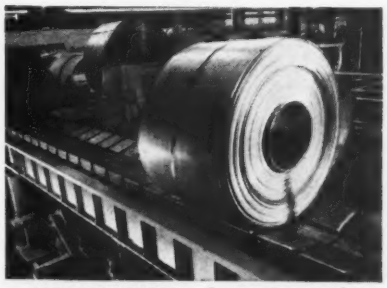
APRON CONVEYORS AND FEEDERS are ideal for handling a wide variety of granular and lumpy materials horizontally or on an incline.

BELT CONVEYORS handle large tonnages of bulk materials at low cost. Link-Belt also makes Pre-bilt sectional types plus idlers, trippers and drive machinery.

OTHER LINK-BELT PRODUCTS INCLUDE:

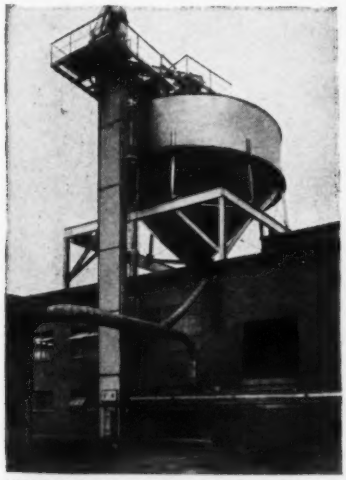
Baggage handling conveyors . . . oscillating conveyors . . . slat conveyors . . . car spotters . . . car shakers, dumpers and unloaders . . . industrial waste recovery equipment . . . log and ore stackers . . . hydraulic truck dumpers . . . power unloading scoops . . . skip hoists weigh-larries . . . ice crushers-slingers . . . thickeners and clarifiers . . . silo storage systems. Catalogs sent on request. 14,682

BULK-FLO elevator-feeder-conveyors handle flowable materials in horizontal, inclined, vertical directions in one unit.

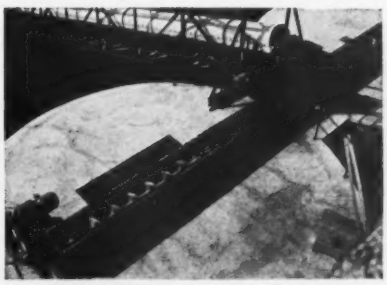


COIL CONVEYORS of several types for moving heavy coils of steel from coilers to storage or shipping areas, gently and safely. Other conveyors for all products.

TRUKVEYORS cut handling costs wherever packaged materials or freight are moved . . . in terminals, warehouses, plants. In-the-floor and overhead types.



BUCKET ELEVATORS of 13 types and four basic designs provide continuous flow of materials of all kinds. Link-Belt makes *all* components, assuring built-in alignment.



SCREW CONVEYORS are simple, compact and economical to operate. Can handle a variety of materials. Link-Belt makes all types, sizes and components.

CHAIN CONVEYORS of every type from industry's broadest line—cast, steel or combination types. Attachments offer economical adaptation to exact needs.

14,682-P

LINK-BELT COMPANY: To Serve Industry There Are Link-Belt Plants, Sales Offices and Factory Branch Stores at San Francisco 24, Los Angeles 22 (Montebello), Seattle 4. Sales Offices and Factory Branch Stores at Portland 10, Spokane 10, Salt Lake City 1. Stock Carrying Distributors in Principal Areas.

. . . for more details, circle No. 46 on Reader Service Postcard

See listing in Directory Section

Romer maintenance stand, Romer fork lift.

Personnel at booth: Harry S. Green, vice pres.-sales; **Robert J. Kurvers,** sales; **E. F. Holthaus,** controller; **W. M. Cromer,** pres.

Special features at booth: A complete demonstration of the ease of raising and lowering maintenance stand and its many safety features.

DARNELL CORP., LTD., 12000 Woodruff Ave., Downey, Calif.

Booth: 548

Products featured: Casters, wheels, rubber products.

Personnel at booth: Thomas A. Watson, factory representative; **A. L. Foster,** sales mgr.

DAVIS MATERIAL HANDLING CO., 4891 Huntington Drive No., Los Angeles, Calif.

Booth: 508-509

Products featured: Paltier storage racks, two types of adjustable storage racks, three varieties of pyramid storage racks, slip-on hardware for standard pallets, Lansing hand trucks, Wilkie telescopic conveyor, Stewart-Glapat power turn, Uhrden dumper.

Personnel at booth: Wm. R. Davis, J. Walter Bond, Allan Gowans, Kathleen LeGallee.

W. C. DILLON & CO., INC., 14620 Keswick St., Van Nuys, Calif.

Booth: 530

Products featured: Crane and hoist scales, overload prevention devices for hoists and cranes and traction type dynamometers used for weighing very heavy or bulky objects.

Personnel at booth: George A. Dillon, sales mgr.; **R. E. Dillon,** vice pres.; **David A. Dillon,** ass't. sales mgr.; **D. Smith,** service mgr.

Special features at booth: All products will be set up in actual operation.

DRAVO CORP., Neville Island, Pittsburgh, Pa.

Booth: 676

Products featured: Bulk material handling equipment including ship and barge unloaders (man trolley and tower types) for ores, coal, dry chemicals, etc. Also bridges for stocking and reclaiming ores, coal, dry chemicals, etc.

Personnel at booth: E. M. Hays, mgr., Crane and Bridge Sales; **W. H. Lehr,** sales engineer, Crane and Bridge Sales; **John W. Bell** and **William A. Walton,** San Francisco office.

EASTERDAY SUPPLY CO., 1150 W. 4th St., Los Angeles, Calif.

Booth: 326

Products featured: Plantman sweeper (hand operated). Advance Convertimatic (automatic scrubbing and pickup machine).

Special usefulness in Western plants: Plantman sweeper permits dustless sweeping of in-plant areas more efficiently and at reduced cost. Advance Convertimatic scrubs and picks up in one operation.

Personnel at booth: Wm. Dreyer; M. J. Fitzmaurice, David Semel, Lou Horowitz; Jerry Hodes; Jerry Morrison.

Special features at booth: Demonstration of equipment.

THOMAS A. EDISON INDUSTRIES, Edison Storage Battery Div., 5225 Wilshire Blvd., Los Angeles.

Booth: 529

Products featured: Nickel-iron-alkaline storage battery as used in an electric industrial truck, emergency and auxiliary lighting unit.

if you're a mill buyer of steel...*take another look at today's warehouse prices. They will save you money!*

Sheet...Strip
Bars...Shapes
Hot Rolled • HRP & O
Cold Rolled • Galvanized and Tin Plate Finishes
Low, Medium and High Carbon
Free Machining • Alloys
Aircraft and Commercial Quality in all available specifications

Most steel users are feeling the squeeze between their lower production rates, and higher handling costs.

Lower production rates pile up larger steel inventories, tying up capital, and increasing the hazards of obsolescence. Higher handling expense, occasioned by increased cost of labor and materials-handling equipment, completes the squeeze. And there's the cost of storage space, insurance, property taxes and processing equipment. And, too, mill prices are sure to go higher, due to rising mill costs.

You may find a quick way out in Ziegler Steel's lower warehouse prices—a reduction which makes buying from Ziegler even more attractive than usual. Today you can change your percentage of mill buying, and cut costs.

AMERICAN STEEL WAREHOUSE ASS'N

ZIEGLER STEEL SERVICE CORP.

LOS ANGELES 22: 7022 BANDINI BLVD. • RAymond 3-3131 • PArkview 8-1266
From San Diego, Santa Monica, Long Beach, Santa Ana, Pomona • ZEnith 1266
NORTH HOLLYWOOD: 7400 Laurel Canyon Blvd. • POplar 5-8842 • STanley 7-5606
OAKLAND 21, CALIFORNIA: 727—66th Avenue • LOckhaven 2-2133
From San Francisco, San Jose and the Peninsula • ENterprise 1-1037

. . . for more details, circle No. 47 on Reader Service Postcard

Personnel at booth: **R. S. James,** district mgr.; **E. S. Carpenter,** field engineer; **F. H. Shirt,** field engineer.

EVANS CONTAINER CORP. OF LOS ANGELES, 5832 East 61st St., Los Angeles, Calif.

Booth: 672

Products featured: Evans spindle locking containers for the handling and shipping of Convair wing and fuselage skins; Swedlow Plastics Co. aircraft canopies; Menasco Mfg. Co. landing gears and assemblies; missile components, nose and fin assemblies of Firestone Tire & Rubber Co.

Personnel at booth: Brewster B. Broadwell, pres.; **William I. Evans,** gen. mgr. and vice pres.

Special features at booth: Demonstration of the assembly and disassembly of the Evans container.

EXIDE INDUSTRIAL DIVISION of THE ELECTRIC STORAGE BATTERY CO.

Booth: 342

Products featured: Exide batteries for electric industrial trucks, Exide Lightguard.

Special usefulness in Western plants: Economical power for driving electric industrial trucks.

Personnel at booth: R. J. Muth, T. W. Brown, M. Pederson, C. S. Murphy, J. N. Cook, J. D. Halquist, N. O. Esterson.

FAULTLESS CASTER CORP., 1521 North Carvin St., Evansville, Ind.

Booth: 347

Products featured: Industrial casters (including spring action and grease sealed); wheels.

Special usefulness in Western plants: A full line for every application of loads from 25 to 15,000 pounds per caster.

Personnel at booth: Otto E. Holler, J. W. Allen.

FEDERAL FIBRE CORP., 3704 Tenth St., Long Island City, N. Y.

Booth: 318

Products featured: FEDCO fibre box trucks, mill boxes, tote boxes, conveyor boxes, special materials handling and stock boxes.

Personnel at booth: Seymour Chase, sales mgr.

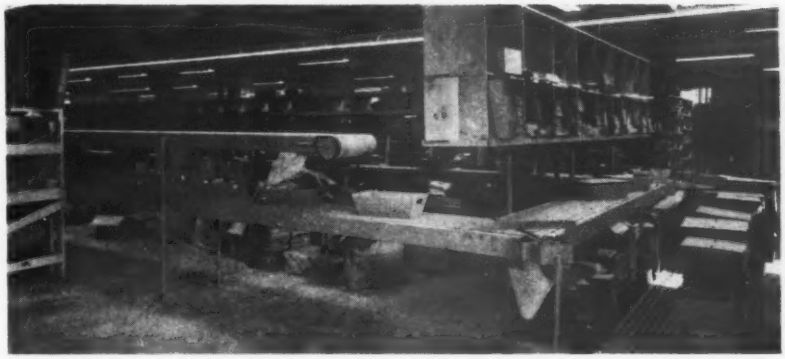
GENERAL CONVEYOR, INC., 6435 Corvette St., Los Angeles.

Booth: 138

Products featured: Cleveland tramrail cranes and monorail com-

CANFIELD CONVEYORS

SPEED HANDLING . . . IN EVERY CASE . . .

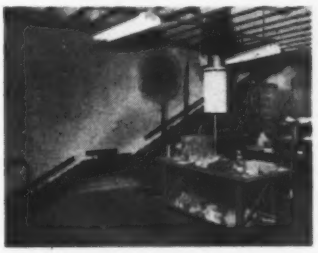


NO RETURN BELTING

This continuous, rectangular conveyor system handles an average of 6,000 orders a day. It is 208 feet long . . . has *no return belting,* no idlers . . . needs only *half* as much belting as a conventional conveyor. By coordinating all phases of order-filling, errors in this department were reduced to less than 0.5%. The novel idea of *no return belt* was worked out and perfected by Canfield engineers working closely with the customer's operations manager.

WITH RETURN BELTING

In the installation shown at the right, a "return" type Canfield conveyor was a vital necessity. The upper section moves orders from their point of origin at one end of the building past a score of order-filling stations direct to the shipping department. The return belt at the bottom carries empty cartons back to the order-starting point to speed and simplify the entire operation.



FLOOR-TO-FLOOR UP OR DOWN

Three floors are served by the Canfield inclined, heavy-duty conveyor shown above. Operation is fast and efficient in either direction, up or down . . . minimum space is required. Installation, operation and maintenance costs are much less than elevators or other two-way, floor to floor material handling methods.

SEE US IN BOOTHS 614 - 621 and 532 - 539 at the Western Material Handling Conference and Equipment Show

always call **CANFIELD** for **CONVEYORS** • Belt or Gravity • Permanent or Portable • Special or Standard

MEC EST. 1909

M. E. CANFIELD COMPANY

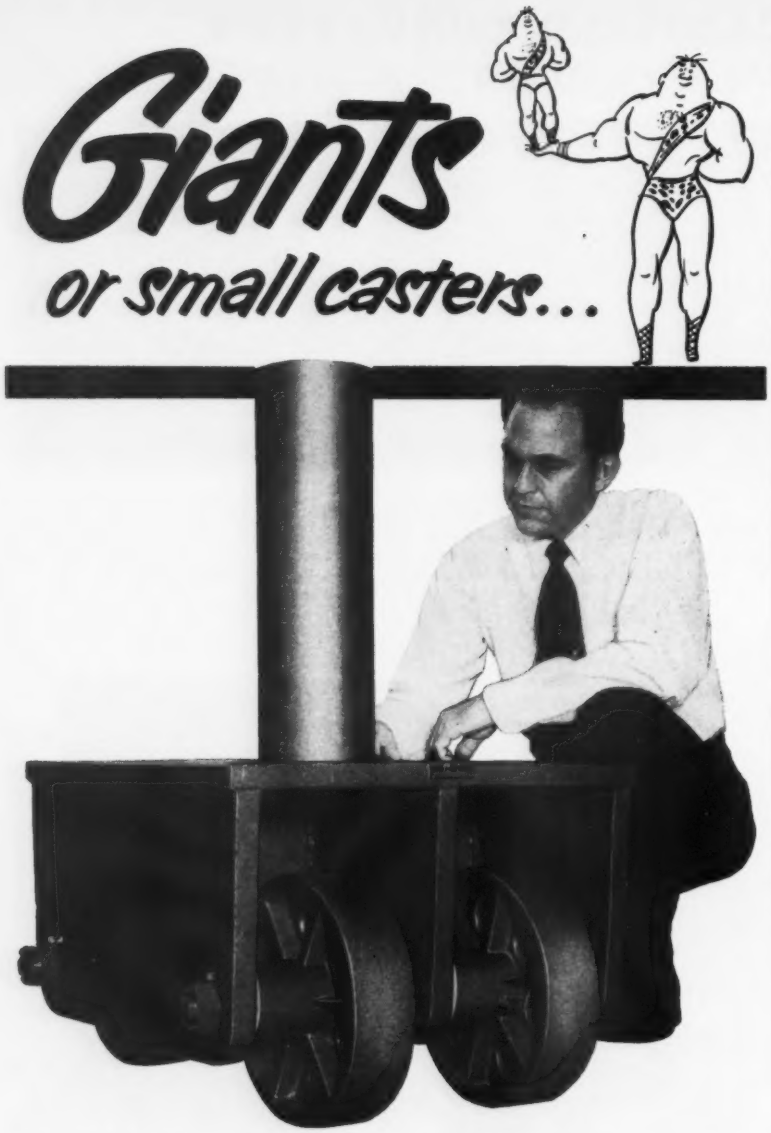
419 E. Third Street, Los Angeles 13, California

Telephone MAdison 6-6606

SPECIALISTS IN MATERIAL HANDLING AND STORAGE EQUIPMENT

. . . for more details, circle No. 48 on Reader Service Postcard

Giants or small casters...



Colson is headquarters for casters and wheels of all kinds. Here you have a selection of 1458 different kinds, types and sizes in stock and ready for immediate delivery.

The giant caster, above, and three others like it were built in our own shop for Universal Pictures. They were used to support and move a fully rigged, two masted schooner. Each caster weighs 1500 lbs. and has a capacity of more than 7 tons. Each has four 15" diameter wheels 8" wide.

At Colson there is a caster to meet your requirements exactly—or we will make one. Phone or write for information.

The World's Largest Selection of Casters & Wheels

1458 Different Kinds, Types and Sizes

Colson Equipment & Supply Co.

LOS ANGELES 13 1317 Willow Street • TRinity 5743
OAKLAND 7 350 Tenth Street • TEmplebar 2-3556
SAN FRANCISCO 5 20 Beale Street • GArfield 1-0280

. . . for more details, circle No. 49 on Reader Service Postcard
See listing in Directory Section

ponents, bulk-handling process installation information.

Special usefulness in Western plants: Flexible overhead transfer systems in warehouse and manufacturing operations, integrated raw materials process conveyor systems.

Personnel at booth: P. H. Bertola, mgr.; **Benjamin Lane,** sales engineer; **L. E. Barton,** sales engineer; **R. M. Bickerstaff,** mgr. General Conveyor Inc. of Northern Calif.

GENERAL LOGISTICS, DIVISION OF AEROQUIP CORP., P. O. Box 1071-M, Pasadena, Calif.

Booth: 350

Products featured: Aeroquip Weblock tension locking straps, 5,000- and 10,000-lb. ratchet buckle and other buckles and hardware, Ropelock trucking track and fittings.

Personnel at booth: Allan B. Fredhold, Jr., gen. mgr.; **Richard Mosher,** sales mgr.; **George Hodgkiss,** sales engineer.

Special features at booth: Demonstrations of all products.

GLOBE PACIFIC HOIST CO., 1461 Canal Ave., Long Beach, Calif.

Booth: 634-635

Products featured: Loading dock ramp, platform lift, electric platform lift on over-the-road trailer.

Special usefulness in Western plants: Shipping and receiving depts., production depts. (work levelers, machine feeding, special hydraulic cylinder uses).

Personnel at booth: Robert S. Phoenix, sales mgr.; **John R. Queen,** vice pres. and gen. mgr; **J. Hubert Quatkemeyer,** chief engineer; **Harvey Hosman,** office mgr.

LUFKIN

TAPES

IN STOCK AT

HOWARD SUPPLY COMPANY

. . . for more details, circle No. 50

Special features at booth: All models operative—"Muscle man" ramp demonstration of "safety-non-drop" feature.

GLENN A. HARSHBARGER CO., 588 Mateo St., Los Angeles, Calif.

Booth: 343-344

Products featured: Moto-Truc electric walkie trucks, Baker gasoline fork trucks.

Personnel at booth: Glenn A. Harshbarger, W. A. Tadlock, Thos. A. Frost, Wm. C. Sowders, C. S. Goodale.

GOULD NATIONAL BATTERIES, INC., 14500 Nelson Ave., La Puente, Calif.

Booth: 514

Products featured: Gould industrial storage batteries.

Personnel at booth: Dick Schubert, district mgr.; **Ken B. Dahl, Owen J. McElfish,** specification engineers; **Gray J. Gould,** field engineer.

Special features at booth: Daily demonstrations of battery assembly and construction.

GREEN-PENNY CO., 4180 East Noakes St., Los Angeles, Calif.

Booths: 116, 117, 118

Products featured: Sturdi-Bilt pallet and storage racks, Hallowell Erectomatic shelving, Bond casters and wheels.

Personnel at booth: T. M. Penny, pres.; **R. E. Green,** ass't. to pres.; **E. R. Green,** vice pres.; **D. Graham,** engineer; **John H. Kehres,** sales mgr.

HOBART MOTOR GENERATOR CORP.

Booth: 641

Products featured: Automatic battery chargers, newly designed line of motor-generator chargers.

Personnel at booth: George J. DeBroeck, Elwood Gieg, Donald Elkerton, Frank T. Butler (San Diego rep.), **Fred Pelletier.**

HOWARD TERMINAL, 95 Market St., Oakland, Calif. (For Kaiser Aircraft & Electronics Co.)

Booth: 213

Products featured: Nest-A-Bin aluminum containers.

HYSTER CO.

Booth: 705, 706, 707, 708, 709, 710, 711

Products featured: Complete display of Hyster industrial truck line from 1,000- to 30,000-lb. capacity.

Personnel at booth: E. B. Campbell, H. DeSoto, Bruce Howard.

Choice of the wise buyer who compares...

CM HOISTS

CM METEOR ELECTRIC WIRE ROPE HOIST ½ to 5 ton capacities—Compact, enclosed design. Low headroom. Continuous duty motor with thermal overload protection for heavy duty service. Precision bearings and helical gears for long life. Only 110 volts at push button control. Hook suspension; plain, geared or motor driven trolley.

CM LODESTAR ELECTRIC CHAIN HOIST—⅛ to 1 ton capacities—First truly heavy duty version of small electric hoist. ¼ ton model weighs only 51 lbs. Heavy duty self-adjusting brake, plus exclusive regenerative electrical braking. Upper-lower safety limit switches. CM-Alloy load chain. Single and three phase.

CM CYCLONE Hand Chain Hoist—¼ to 10 ton capacities—Easy to carry. One ton model weighs only 36 pounds. Made of tough aluminum alloy. CM-Alloy load chain. High efficiency. Lifetime lubrication.

CM PULLER—"The One Man Gang"—¾ to 6 ton capacities—Lifts or pulls at any angle. Lever handle operation Automatic load brake holds at any point. ¾ ton model weighs only 13 pounds and fits in a tool box. CM-Alloy load chain.

HAND OR ELECTRIC CHAIN OR WIRE ROPE

CM makes them all! So you can choose a hoist that's perfectly suited to your specific needs in a compact, rugged and safe CM design.

CM TROLLEYS AND CRANES

● **FOR OVER 75 YEARS,** Chisholm-Moore has offered hoist buyers the newest and most efficient designs, the most rugged construction, and the greatest number of valuable operating and safety features. CM hoists operate with a very minimum of maintenance. They give years of satisfying service.

Call the CM Distributor for catalogs, prices and fast delivery from stock

CM HOISTS AND CHAIN

CHISHOLM-MOORE HOIST DIVISION

COLUMBUS McKINNON CHAIN CORPORATION

TONAWANDA, NEW YORK

REGIONAL OFFICES: NEW YORK, CHICAGO, CLEVELAND

In Canada: McKINNON COLUMBUS CHAIN LIMITED, ST. CATHARINES, ONTARIO

. . . for more details, circle No. 51 on Reader Service Postcard

See listing in Directory Section

MORE BOTTLES IN SAME WAREHOUSE! Filled wine bottles get a smooth, high lift on Yale K51W Trucks. Full use of air rights boosts warehouse capacity for Gallo—8,000 more bottles!

e boosts production, slashes handling costs

with

YALE K51W ELECTRIC TRUCKS

speeds empties in-speeds cases out!

Gallo's winery at Modesto, Calif. is one of the nation's largest. Here, 32 different types of wines are produced, bottled and shipped. With production steadily increasing, Gallo management faced a common problem: outmoded, obsolete equipment—unable to handle soaring output. For a solution, Gallo called in Yale engineers. Together, they came up with a new handling system that has produced amazing results.

Today, a fleet of new, heavy-duty Yale K51W Electric Trucks unloads thousands of empty bottles a day—feeds them to 6 non-stop bottling lines. Every day these same trucks stack hundreds of full cases in warehouses and load them onto trucks and rail for shipment. Result: fast-cycle operations – big savings in storage space – handling costs at an all time low! Here's why:

Yale K51W is fast! Travels up to 6½ m.p.h. Lifts full 50 ft. a minute.

Yale K51W is short! Only 68¼" from front face of forks. Compactness makes fast maneuvering easy, lets you trim warehouse aisles for extra storage space.

Yale K51W is safe! Excellent operator visibility. Maximum stability. Dead-man control.

Yale K51W is easy to drive! Full forward visibility. Special inching control. Exclusive Yale magnetic Cam-O-Tactor for controlled acceleration. High-capacity battery for 8-hour operation without recharging.

Learn how *you* can cut handling costs with the 3,000-4,000 lb. capacity Yale K51W Electric Truck or, send for information on any of the broad line of Yale Industrial Lift Trucks – Gasoline, Electric, LP-Gas, *Worksavers*, Warehousers, Hand Trucks. Wide range of capacities. Write The Yale & Towne Mfg. Co., Philadelphia 15, Pa., Dept. A-264.

THIS IS MANEUVERABILITY! Short Yale K51W works at top speed in aisles less than 10 feet wide. 15° tilt-back improves maneuverability and speeds up operation.

FAST SHUTTLE! Yale K51W unloads this trailer truck in only 12 trips. Takes empties directly to bottling lines to meet tight production schedules.

YALE*
*REG. U.S. PAT. OFF.

YALE & TOWNE

INDUSTRIAL LIFT TRUCKS AND HOISTS

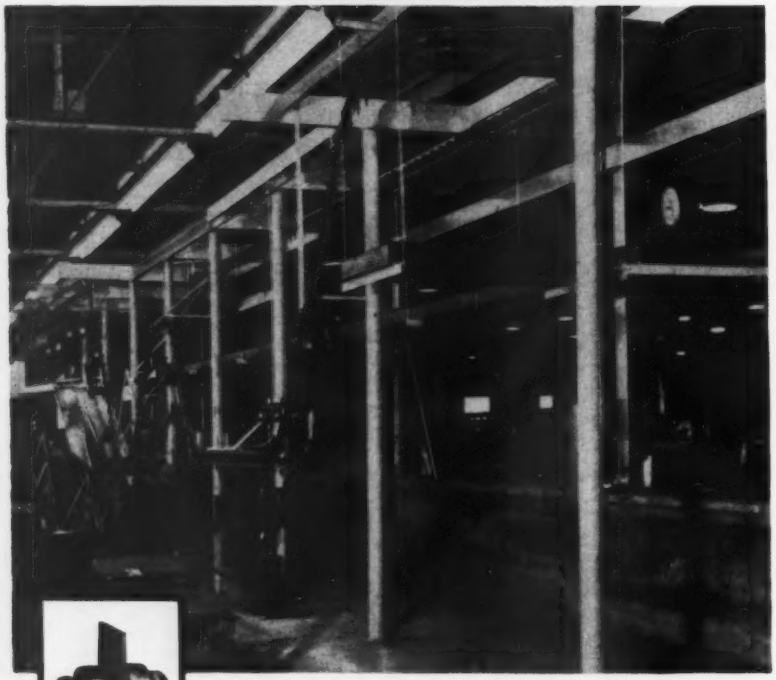
GASOLINE, ELECTRIC, DIESEL & LP-GAS INDUSTRIAL LIFT TRUCKS • WORKSAVERS
WAREHOUSERS • HAND TRUCKS • HAND AND ELECTRIC HOISTS

YALE MATERIALS HANDLING DIVISION, THE YALE & TOWNE MANUFACTURING CO. MANUFACTURING PLANTS: PHILADELPHIA, PA.; SAN LEANDRO, CALIF.; FORREST CITY, ARK.

. . . for more details, circle No. 52 on Reader Service Postcard
See listing in Directory Section

A NEW LIGHT-DUTY TROLLEY CONVEYER . . . ENGINEERED AND STANDARDIZED BY

MATHEWS



A #232 Trolley Conveyer Applied for painting, drying and storage of miscellaneous parts.

This light-duty Trolley Conveyer has several features which make it a leader in the field of overhead conveying. It is comparatively easy to install, with hanger-rod and angle hanger supports available to meet any supporting requirements. Standard turns, vertical bends, and takeup assemblies are made in sizes and types to fit even the most difficult layout.

The drive units have a wide range of capacities and horsepowers, with conveyer speeds ranging from one to fifty feet per minute.

The #232 wheel was specifically designed for trolley conveyer service and is an outstanding performer. This equipment is priced reasonably and is available from stock, being assembled from standard parts throughout.

Write for Bulletin T-58 today.

MATHEWS CONVEYER COMPANY WEST COAST
SAN CARLOS, CALIFORNIA
LOS ANGELES · PORTLAND · SEATTLE · DENVER · FORT WORTH
DALLAS · HOUSTON · EL PASO · HONOLULU, T. H. · SALT LAKE CITY

MATHEWS
Over Fifty Years of Leadership in Mechanized Handling

. . . for more details, circle No. 53 on Reader Service Postcard
See listing in Directory Section

Special usefulness in Western plants: Full coverage of all material handling requirements with complete line of attachments.

Personnel at booth: W. H. Kilkenny, mgr.; sales engineers: **Harold Berg, Paul Rompannen, Melvin Maas, Bob Bentley, Victor Hunt, Fred Gibbs.**

LEWIS-SHEPHARD PRODUCTS, INC., 125 Walnut St., Watertown, Mass.

Booth: 614-21 and 532-39

Products featured: Power and hand-operated industrial trucks.

Personnel at booth: Art Canfield, Milt Canfield, Stan Nash, Ken Scott, Paul Fletcher, Lew Webster, Park Chapman, Dewey Zabel, George Ashton, Bob Semple.

Special features at booth: All industrial trucks will be fully operative, enabling visitors to actually test drive each unit.

THE LINCOLN ELECTRIC CO., Cleveland, Ohio (Los Angeles office, 2661 So. Yates.)

Booth: 422

Products featured: Lincoln battery chargers and motors.

Special usefulness in Western plants: Accurate, fool-proof charging of industrial batteries at lowest cost, motor applications in abrasive or corrosive atmospheres.

Personnel at booth: J. B. McCorwin, Los Angeles dist. mgr.; **Joe Strauss; Sam Bicker, R. R. Kilgore; C. E. Lewis; Dave Stoves; C. O. Planting; Jerry Stoeckinger,** sales engineer.

Special features at booth: Lincoln standard open-type motor with Multigard insulation will be operating under water.

MARTIN-DECKER CORP., 3431 Cherry Ave., Long Beach, Calif.

Booth: 322

Products featured: Senaster

BEHR-MANNING HANDY ROLLS

IN STOCK AT

HOWARD SUPPLY COMPANY

. . . for more details, circle No. 54

crane scale, lift truck weight indicator, tension and compression load cell systems, test gages, tensiometers.

Personnel at booth: A. G. Herrick, industrial sales mgr.; **D. A. Yeo,** Western district mgr.; **C. L. Howard,** sales engineer; **H. D. Ahlborn,** advertising mgr.

MASSEY-FERGUSON INDUSTRIAL DIVISION, 1009 South West St., Wichita 13N, Kan.

Booth: 684-687

Products featured: Work Bull fork lift, Work Bull 100K Multipurpose tractor loader.

Special usefulness in Western plants: Outside material and equipment handling, maintenance of factory area, handling scrap.

Personnel at booth: Milton Tuell, sales promotion mgr.; **John Vilven,** regional sales mgr.

MATHEWS CONVEYER CO. WEST COAST, 901 County Rd., San Carlos, Calif.

Booth: 420-421

Products featured: Parcel sortation unit, automatic order picking system.

Personnel at booth: J. W. Huggins, G. J. Young, W. D. Peppard.

McCLINTOCK MANUFACTURING CO., 802 W. Whittier Blvd., Whittier, Calif.

Booth: 450

Products featured: Storage racks, carts, trucks, dollies, shelving, and a complete line of containers integrated for both transport equipment and storage facilities.

Special usefulness in Western plants: A completely unitized system of small parts handling which allows for storage, transportation, and operations without the parts being removed from their container.

RIGID

PIPE WRENCHES

IN STOCK AT

HOWARD SUPPLY COMPANY

. . . for more details, circle No. 55

Look to

Fairbanks

for the finest MATERIALS HANDLING EQUIPMENT

STEEL-FRAMED TWO WHEEL HAND TRUCKS

FIG. 9215-S

"BANTAMWEIGHT" ALL WOOD PLATFORM TRUCKS

"LOCKWELD" STEEL CASTERS WITHOUT A KING-PIN. SINGLE AND DOUBLE BALL RACE

VULCANIZED RUBBER TIRED WHEELS

LOOK TO

These leading West Coast Distributors, who recommend and stock FAIRBANKS products, for the answer to your materials handling problems.

LOS ANGELES, CALIFORNIA
McKinley Equipment Co., 1557 Esperanza St., ANgelus 9-0567
Warren & Bailey Co., 3528 So. Garfield Ave., RAymond 3-7181

SAN DIEGO, CALIFORNIA
Warren & Bailey Co., 2305 E. Belt St., BElmont 9-9491

SAN FRANCISCO, CALIFORNIA
Hamerslag Equipment Co., 110 Freeway Blvd., JUno 3-5757
Warren & Bailey Co., 1287 66th St., Emeryville, OLympic 4-2200
From S. F. ask operator for ENterprise 1-2370

PORTLAND, OREGON
Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd., ATwater 4196
Harris Supply Co., Div. of Warren & Bailey Co., 524 N.W. 14th Ave., CApital 8-4181

SEATTLE, WASHINGTON
Materials Handling Equipment Co., 2963 1st Ave., So. SEneca 0997

SPOKANE, WASHINGTON
Towne Equipment Co., N. 622 Monroe, BRoadway 0462

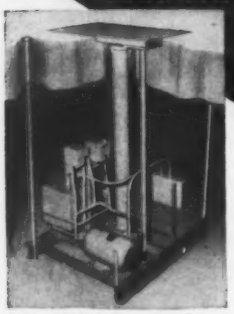
THE Fairbanks COMPANY

393 Lafayette Street
New York 3, N. Y.

VALVES • DART UNIONS • TRUCKS • CASTERS • WHEELS

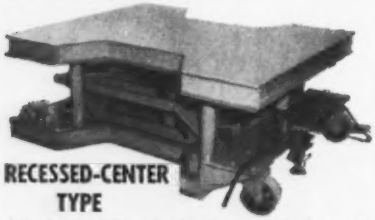
. . . for more details, circle No. 56 on Reader Service Postcard
See listing in Directory Section

You, too, may benefit with Weld-Bilt HYDRAULIC LIFT TABLES like these



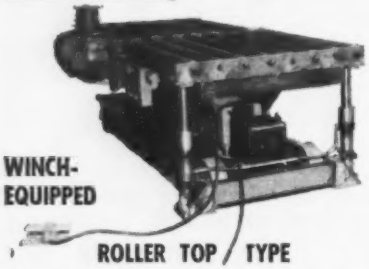
THRU-THE-FLOOR TYPE

Suspended below the floor, with platform top at floor level — lifts skidloads to machine level for effortless production.



RECESSED-CENTER TYPE

Affords flexibility in handling steel sheets of varying widths. Raises sheets to press height without manual lifting.



WINCH-EQUIPPED ROLLER TOP TYPE

Motor Driven Winch moves heavy dies on or off presses on free-running rollers. Raised and lowered by two-way foot pedal control.

Your plant, too, may have many moving, lifting, or production feeding operations that may be more profitably done with WELD-BILT HYDRAULIC LIFT TABLES. Write, outlining your need. We'll be glad to suggest an economical solution.

West Coast Representatives

P. F. O'Donnel Co., 2298 Jerrold Ave., San Francisco; **Keville Ind. Service**, 1590 Ganesha Place, Pomona; **Equipment Supply Co.**, 16 Post Office Place, Salt Lake City; **Equipment Engineering Co.**, 1400 Ruth Drive, Thornton, Colorado; **Stryco Sales Inc.**, 312 Industrial N. E., Albuquerque; **Hallidie Machinery Co.**, 1915 N.E. Union, Portland; **Preston Faller Co.**, 1921 Minor Ave., Seattle; **Liftco, Inc.**, 4324 East Trent Ave., Spokane.

Weld-Bilt Vertical Floor to Floor Transportation Systems — Lift Trucks — Portable Elevators — Automatic Elevators.

WEST BEND EQUIPMENT CORP.
MATERIALS HANDLING ENGINEERS

307 WATER STREET • WEST BEND, WIS.

. . . for more details, circle No. 57
See listing in Directory Section

R & K INDUSTRIAL PRODUCTS CO., 1945 N. 7th St., Richmond, Calif.

Booth: 313

Products featured: Aluminum wheels, bonded natural rubber, conductive rubber, DuPont neoprene tire.

Personnel at booth: Edward E. Keisson, pres.; **E. Irvin Gracier**, sales mgr.

SAGINAW STEERING GEAR DIVISION OF GENERAL MOTORS CORP., 3900 Holland Ave., Saginaw, Mich.

Booth: 444, 445

Products featured: Ball bearing screws and ball bearing splines for actuators of a wide variety of sizes, lengths and ball circle diameters.

Special usefulness in Western plants: Can be used to increase efficiency of conveyor systems, a wide variety of machines and factory equipment.

Personnel at booth: Harry Hawkins, director of sales and engineering; **Paul V. Wysong, Jr.**, supervisor of sales, ball bearing screw operation; **Maurice K. Horan**, west coast mgr.

Special features at booth: Several interesting working exhibits of ball bearing screws and ball bearing splines in action.

STANDARD CONVEYOR CO., 115 East 23rd St., Los Angeles.

Booth: 221-222

Products featured: Belt and roller conveyor units, conveyor system engineering data and pneumatic tube systems.

Personnel at booth: Wm. J. Donahower, Dale E. Gadeke, S. Benedikter, Arvin McCauley, Rolf Donahower, Bill Hogan.

STEPHENS - ADAMSON MFG. CO., Ridgeway Ave., Aurora, Ill.

Booth: 348-349

Products featured: Component parts for belt conveyors; Sealmaster ball bearings; Swivelpiler, for stock piling material off end of conveyors, pulleys, welded steel type.

Personnel at booth: W. E. Cousland, public relations; **R. E. Durham** and **John Cook**, West Coast sales rep.

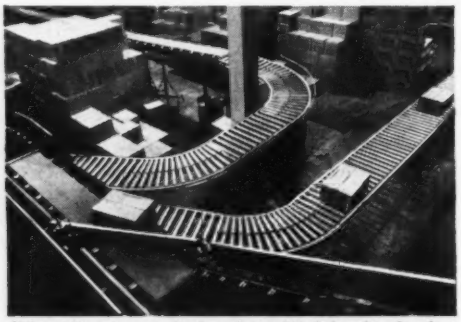
STOKVIS EDERA & CO., INC., 18 Secatoag Ave., Port Washington, Long Island, N. Y.

Booth: 341

Products featured: Multiton roller skids and pallet trucks.

Special usefulness in Western plants: Multiton roller skids offer a better way to move heavy equipment.

Ask Standard *how*



Order-picking is expedited and simplified by this Standard system of roller and belt conveyors in large warehouse.

belt and roller conveyors ease warehouse traffic jams

FAST flow of goods and simplified labor add up to more profitable warehouse operations.

Standard offers a wide variety of gravity and powered, permanent and portable conveyors that can help you establish smooth, more profitable warehousing.

Spend a few moments with a Standard engineer. He'll show you how inexpensive Standard conveyors give you maximum flexibility at minimum cost. He'll show you, too, how Standard conveyors provide the many advantages of a custom-designed system at low cost. STANDARD CONVEYOR COMPANY, General Offices: North St. Paul 9, Minn. *Sales and Service in Principal Cities*

Write for Bulletin 309—address Dept. H-4. Better still, contact the Standard engineer listed in your classified phone book.

50 years of conveyor operation

Standard
GRAVITY & POWER CONVEYORS

SAN FRANCISCO: 840 Harrison St.
SEATTLE: Russel G. Daley, 502 First Ave. So.
LOS ANGELES: 115 E. 23rd St.

. . . for more details, circle No. 58 on Reader Service Postcard
See listing in Directory Section

Personnel at booth: John Stokvis, pres., Eric Rice, sales mgr.

JERVIS B. WEBB CO. OF CALIF., 9301 Rayo Ave., South Gate, Calif.

Booth: 688, 689, 690, 691

Products featured: Overhead trolley conveyors, floor type conveyors, power and free conveyors, and the Webb "Towveyor."

Personnel at booth: Jack D. Peters, vice. pres. and gen'l. mgr.; Robert Foley, sales engineer; Doug Hunt, sales engineer; Al Lynn, sales engineer; Ronald Willis, sales engineer; Bob Hilts, sales dept.

THE YALE & TOWNE MFG. CO., 11000 Roosevelt Blvd., Philadelphia, Pa.

Booth: 544

Products featured: Yale Triplex Mast, G-3 truck, Worksaver Stacker, K51W (electric rider-type truck), KG51 (gasoline-powered truck), Extend-A-Fork Warehouser, Low lift pallet worksaver, Model A hydraulic lift hand truck, and G-52 (gasoline powered lift truck.)

Personnel at booth: C. R. Dean Jr., general sales mgr.; H. M. Stiles, Western regional sales mgr.; G. A. Tamblyn, mgr. bulk handling equipment; J. M. McEntee, branch mgr., Los Angeles; D. B. Eshom, hoist district sales mgr., Los Angeles; L. W. Goldenson, branch mgr., San Leandro; N. C. Baker, advertising mgr.; J. H. Brown, publicity mgr.

THESE ARE JUST A FEW of the highlights of the hundreds of exhibits at the Material Handling Show. Sorry we didn't have room to print more. But at least you'll have an idea of what will be displayed. And don't forget to look us up in **booth 224.** We've got a thing or two to show you!

BESLY

TAPS

IN STOCK AT

HOWARD SUPPLY COMPANY

... for more details, circle No. 59

There's a PARKER Product

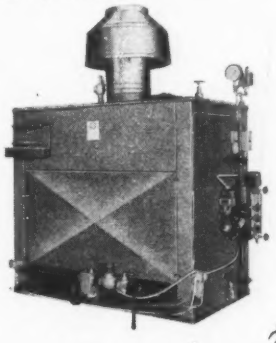
FOR EVERY STEAM AND HOT WATER REQUIREMENT

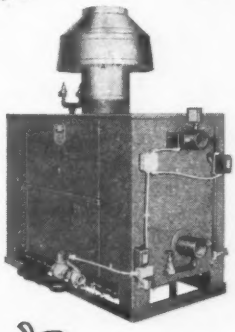
PARKER INDUSTRIAL STEAM BOILERS

Easy to operate and maintain. Fully automatic, equipped with only the finest controls sold and serviced throughout the world. Delivered completely assembled — easy to install. Easily cleaned and completely accessible.

PARKER INDUSTRIAL HOT WATER BOILERS

Incorporates all of the quality materials and construction features that have made Parker products famous throughout the world. Fully automatic, simple to maintain, delivering hot water at the lowest possible cost to you.





PARKER INDUSTRIAL WATER SOFTENERS

Softens water the most economical and simplest way. Low initial cost — durably constructed for longer life. Engineered for proper distribution and efficient back-wash to cut water and salt consumption to a minimum. Equipped with the best solo valve for reliable and easy operation.

PARKER AUTOMATIC RETURN SYSTEMS

The Parker Packaged Return System provides fully automatic and reliable operation for boiler feed and condensate storage. Overhead system is compact, fully assembled for easy installation. Heavy duty piston or turbine pump — heavy steel tanks with automatic float valve. Durably built for longer life.

MAIL THIS REPLY CARD—TODAY

Please send me latest information and bulletin on Parker Boilers ☐ Parker Hot Water Boilers ☐ Parker Water Softeners ☐ Parker Return Systems ☐ and the name of the nearest distributor.

Name _____

Address _____

City _____ State _____

SID E. PARKER BOILER MANUFACTURING COMPANY
2035 East Thirty-Seventh St.
Los Angeles 58, California
ADams 3-4211

... for more details, circle No. 60 on Reader Service Postcard

Work with your AIM*... K-Lath Corporation does...
Unitizing halves handling costs

K-LATH CORPORATION, Alhambra, Calif., working with their Acme Idea Man, developed methods of unitizing with Acme Steel Strapping that cut materials handling costs in half. Customers enjoy time and labor-saving benefits, too. (Idea No. S3-34)

Acme Idea Man Paul Koenig works with K-Lath and many other companies on materials handling problems.

Warehouse storage capacity has doubled, because the palletized units can be stacked two or three high. And 10% more of these tight, secure units can be loaded in box cars, requiring less dunnage. The ease of handling these units is often used as a selling point by K-Lath representatives.

Workers like the new B5 Stretcher—it's easy and fast to operate in any position on most any application.

***Work with your Acme Idea Man** on your packaging problems. His experience and ideas will provide you with many time and money-saving suggestions. Call or write: Dept. WCS-48, Acme Steel Products Div., Acme Steel Company, 4901 Pacific Blvd., Los Angeles 58, California. Also San Francisco, Seattle, Portland.

ACME STEEL STEEL STRAPPING

... for more details, circle No. 61 on Reader Service Postcard
See listing in Directory Section

Western Packaging

(*Continued from p. 49*)

treated papers available from the Western manufacturers.

In addition, with the more competitive pricing of some of our free-films, especially polyethylene, there is a growing application for these new existing materials, particularly where the visual concept of packaging can be merchandised even in an industrial product.

The role of the custom converter is keyed to the maxim *"that a standard item in reasonable volume can be packaged better, easier and more economically in a prefabricated bag, cover or liner than it can be hand wrapped."* The basic reasons for this are threefold:

1. **The custom-packaging converter buys his papers direct from the mill in carloads at converter's prices as against roll and trade up-charges.**
2. **The converter pre-cuts and forms his paper to exact sizes thus eliminating unnecessary and costly overlapping of expensive packaging materials.**
3. **With the prefabricated bag, there is no stapling or taping material cost and, most important, the labor and time required when using a preformed bag reflect impressive savings compared to the labor cost of hand wrapping.**

Overhead handling

(*Continued from p. 45*)

steel storage bay and shears department. The runways for the gantry and these two bridge cranes are 320 ft. long. The third bridge crane, with a 170-ft. runway, is directly interlocked to the first two cranes and services the heavy presses and head end of the boiler shop.

In addition to the above cranes, the plant is also equipped with a one-ton bridge crane which is used to handle copper tubing and aluminum coil stock used in the fabrication of spiral fin air conditioning coils. This crane is a two-rail underhung, hand-propelled bridge crane, of 30 ft. span, single girder type, which has a runway 120 ft. long.

Of the seven final assembly lines in operation in the plant, the three high-production lines used for water heaters, furnaces, and radiant wall heaters, employ belt and slat-type conveyors, some of them furnished by Link-Belt, while others were plant engineered. Auxiliary gravity-type roller conveyors are also installed wherever needed along these lines. The four low-production assembly lines employ gravity-type roller conveyors only, but in each case the conveyor is specifically installed and sized for the type of handling work it must perform.

The one thing particularly noteworthy about the rest of the material handling system is its completeness. It is designed to have parts just where they are needed . . . when they are needed. In addition to the dual-purpose chain conveyor on the hand-spray finishing line, separate heavy-duty, overhead Link-Belt chain conveyors are used on the Ransburg No. 1 paint line, the Ransburg No. 2 paint line, and the flowcoat paint line. An overhead conveyor 1,076 ft. long is used to carry tanks from the boiler shop to the galvanizing and enameling departments, and then to return the enameled units to the boiler shop for fabrication completion. A 360-ft. conveyor is used to carry the tank component parts (flues, bottoms, heads, etc.) through a spray washer and then to deliver these components to the points of fabrication usage.

Several lighter duty 3-inch I-beam overhead conveyors are also employed. One of them, 744 ft. long, carries parts to the water heater final assembly line. Another, 334 ft. long, carries parts to the upright furnace final assembly line. A third, 580 ft. long, carries parts to both the wall heater final assembly line and the horizontal-type furnace final assembly line.

Some idea of the material handling complexities faced during layout of this new plant can be obtained from the fact that eight different basic product lines of water heating, heating, and air conditioning equipment are produced. Most of these individual lines are manufactured in variations for two or more trade names, and, of course, in different sizes, quality, models, and control adaptations for different types of gas fuels. This adds up to a total of 747 different unit variations. The efficiency of the material handling system is best illustrated by the fact that after only a few months of operation, (the plant was officially opened in October, 1957), operations are already much smoother than in many plants which have been operating for years.

Leasing Equipment

(*Continued from p. 48*)

quired paper work and obtain the funds to cover the purchase. We treat it as a cash purchase in its entirety."

If there was ever a good time to take a long, hard look at the savings within non-productive areas that can be turned into working cash reserves, it is right now . . . when every index points to a fast-rising curve of industrial activity. The better material handling equipment is available for immediate use to replace each obsolete system. And the right lease arrangement, tailor-made to each plant's financial structure, is only awaiting a word from astute management.

IRA G. PERIN CO.
Material Handling Equipment
LOCAL STOCK & PARTS
SAN FRANCISCO 5
575 Howard Street
Phone GArfield 1-1827
SERVICE • • • SURVEYS
. . . for more details, circle No. 62 on Reader Service Postcard

192 pages of conveyor solutions

192 pages of words, pictures, diagrams, charts, etc., solving heavy bulk material conveyor problems are yours in this handsome book. Contents cover typical installations; engineering service; drives; take-ups; idlers; belting; accessories; shuttle, stacker, feeder and portable conveyors; data required for conveyor estimates, and an index. Many pages are devoted to installation photos and suggestions for meeting specific conveyor needs. ***Barber-Greene Co.***

. . . for your copy, circle No. 200

Balanced cord belts for impact resistance

Balanced cord belts with two to six times the impact resistance of fabric belts are pictured and described in this six-page brochure. Photos show how the balanced cord belts absorb impact over a wider area than fabric belts. Other photos show cut-away construction of these balanced cord belts, illustrating their other advantages. ***B. F. Goodrich Co.***

. . . for your copy, circle No. 201

Conveying, elevating for forest products

Lumbermen will understand and appreciate this attractive 44-page manual on Rex conveyors and elevators. Contents include flow charts of sawmills, planing mills, chipping plants, pulp mills, plywood plants, etc., and how these systems fit into the picture. Action photos carry you all the way, and easy-to-grasp captions give you the complete story. All parts of the Rex systems are pictured and detailed. sign data help you understand this type conveyor. ***Chain Belt Co.***

. . . for your copy, circle No. 202

Smooth moving with table top conveyor chains

If you want to move cans, bottles, packages, cartons, parts—of moderate size and bulk — on the level and smoothly — then this book has some answers for you. This 26-page manual pictures and describes steel tabletop chain, nylon tabletop chain, steel platetop chain, crescent top chain, and case conveyors chain for all types of applications. Dimensional drawings and specifications; and engineering and design data help you understand this type of conveyor. ***Chain Belt Co.***

. . . for your copy, circle No. 203

Today's Best M-H Manuals

60 on conveyors

30 on hand trucks

15 on wheels and casters

Rope belt conveyor that's easy on the belt

Here's a data sheet on a new, inexpensive—though efficient—method of belt conveyor support. Limberoller idlers are suspended between parallel stands of steel wire rope. Rope is supported by widely spaced stands. Advantages are: improved load handling, economy, and simplicity of installation. Bulletin includes idler and support stand spacing tables. ***Joy Manufacturing Co.***

. . . for your copy, circle No. 204

New overhead trolley conveyor explained

The many attractive features of the new Mathews light-duty overhead trolley conveyor are detailed in 8 pages of illustrations, detailed drawings, and specifications in a recent publication. Included are explanations of the system's drive, chain and trolleys, take-up and sprocket turns and bends, plus full-page illustrations of the unit in operation. Other helpful data includes installation and lubrication instructions. ***Mathews Conveyer Co.***

. . . for your copy, circle No. 205

Install your own conveying system

Planning and installing your own conveying system is easy with the Oliver-Farquhar bulletin to answer questions. Select the belt and gravity conveyor that meets your requirements from the booklet's illustrated list. Then, make use of the plotting forms, check list, and many useful charts that are provided. Four typical case histories are included which

MODEL S-4-1

Free to Roll

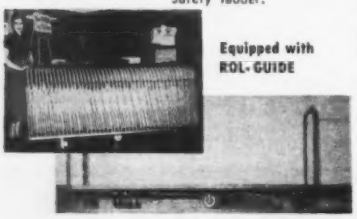
Locked Down

All Aluminum STOCK PICKER

Equipped with new step-lock safety ladder—ideal for stocking shelves and filling orders.

MODEL DT-1
ALL ALUMINUM DEEP TRAY TRUCK

An all-around truck for filling orders, stocking materials and general store work. Also adaptable for handling liquids or as wash truck. Deep tray is leakproof and rustproof—drain cocks if required. Has two-step safety ladder.



Equipped with ROL-GUIDE

MODEL CC-RG-96 STEEL CHAIR CART

Rol-Away's newest model—a light weight, easily maneuverable cart for storing and moving folding chairs in institutions. Equipped with revolutionary new center wheel "Rol-Guide," this truck moves easily in any direction and around narrow corners. Capacity 45 chairs—other lengths and widths available.

Work* SAFER — FASTER — EASIER *with

ROL-AWAY SPECIALIZED HANDLING TRUCKS

Over 70 Special Purpose Hand Trucks for Every Handling and Maintenance Need

ROL-AWAY produces America's largest, most efficient and versatile line of hand operated, materials handling trucks for all jobs in industry, warehouses, chain and department stores and institutions. ROL-AWAY offers such exclusive features as its Patented Safety Ladder, Step-Lock and Rol-Guide. Its trucks are used by hundreds of America's largest and best-known industries, to reduce accidents, save labor and cut costs. No matter what your handling needs may be, ROL-AWAY has a truck which will do the job at less cost. Write us about your problems now.

See Our Booth at the National Materials Handling Show — Cleveland June 9th

MODEL HL-1
HIGH LADDER TRUCK

A high-access maintenance truck with safety ladder which extends to 11'2" for high-level work up to 16 feet. Ladder extensions and truck base are adjustable for positive safety locks. With ladder lowered, the truck rolls easily through any doorway.

MODEL S-7T
LADDER TANK TRUCK

A versatile, high-level, all-aluminum truck with two wash tanks, drain-cocks, storage shelf and an adjustable lock-down, safety ladder that extends 66" above the floor, gives a working reach to over 12'. Ideal for servicing, washing, painting and other high-access work.

Authorized Rol-Away dealers in all metropolitan cities.

SAFETY TESTED · QUALITY EQUIPMENT · PROMOTES SAFETY

The ROL-AWAY TRUCK Mfg. Co. Inc.

6143 S.E. Foster Road Portland 6, Oregon

. . . for more details, circle No. 63 on Reader Service Postcard
See listing in Directory Section

present individual problems and their solutions. Of special interest to engineers and plant layout men. *A. B. Farquhar Div. of The Oliver Corp.* **. . . for your copy, circle No. 206**

Trukveyors—in-the-floor or overhead movers

Sandwiched in among dozens of illustrations and diagrams of Link-Belt's overhead and in-the-floor Trukveyors, for the fast orderly flow of materials, is a wealth of detail. Among the multitude of facts in this 24-pager you will find engineering specifications, parts identification, installation and maintenance information, and everything you need to know about this highly efficient system. *Link-Belt Co.*

. . . for your copy, circle No. 207

Spec sheet from Magline

Now available from Magline, manufacturer of magnesium products, is a complete illustrated specifications sheet on their 500-lb. and 900-lb. capacity magnesium portable roller conveyors, for light and medium-duty conveying. Lightest of all portable metal conveyor systems, Magliners are **really** a one-man job—one man can easily set it up, and easily move it to another location in minutes! *Magline, Inc.*

. . . for your copy, circle No. 208

Do you have D.S.D.*?

Your best friends **will** tell you about *Dry Shaft Drive, an important feature of Fort Worth's Super-Lift screw elevator. No dust or oil on your materials with this unit, since the drive is located at the bottom of the shaft. This makes the Super-Lift suitable for virtually **all** free-flowing materials, including food stuffs. A 3-color folder gives you a cutaway labelled drawing of the elevator, explains the drive unit, and lists some of the many materials suited for Super-Lift elevating. *Forth Worth Steel and Machinery Co.*

. . . for your copy, circle No. 209

Automatic pallet handling

An 8-page bulletin "Vertical and Horizontal Transportation," illustrates and discusses the Weld-Bilt automatic pallet handing system which can be incorporated in conveyor systems. With easy-to-understand diagrams, the bulletin illustrates the multiplicity of flow diagrams which can be had at the user's option by means of electronic control systems employing memory circuits, for either fully automated or semi-automatic flow of palletized material. *West Bend Equipment Corp.* **. . . for your copy, circle No. 210**

Too hot to handle—but not for these belts

Hot material conveyor belts made with rayon fabric reinforcement are featured in a new catalog section issued by B. F. Goodrich. Rubber conveyor belts made with rayon are said to be thinner, dissipate heat more quickly and offer greater ply adhesion than cotton fabric belts. The new belts retain their strength longer when exposed to high temperatures since rayon is less affected by heat. *B. F. Goodrich Industrial Products Co.* **. . . for your copy, circle No. 211**

Basic data on conveyor methods

An unique feature of Standard's 25-page booklet on their extensive line of conveying equipment is a double-page table diagramming and describing the principle behind each type of conveying method. With this under your hat, you'll know exactly which piece of equipment is best suited to your needs —and you'll know a good deal about conveying in general. Remainder of the booklet is divided by industry and shows the company's equipment at work in metal working and chemical industries, food and beverage plants, and miscellaneous industries. *Standard Conveyor Co.*

. . . for your copy, circle No. 212

✔ check

the many advantages of

SORBOCAST

CAST IRON

DAYTON FOUNDRY

Hollydale, Calif. • NEvada 6-1251

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TENSION

WHERE YOU NEED IT

IN BOLTED ASSEMBLIES

RELIANCE HELICAL

SPRING LOCK WASHERS

Wherever products are subject to movement, vibration, stresses and strains, positive steps can be taken to keep assemblies tight indefinitely. Constant tension must be maintained, and the one sure way to accomplish this is by the use of Reliance Spring Lock Washers. They not only retard "nut creep," but automatically compensate for bolt stretch, thread wear, expansion and contraction due to temperature changes.

Made of cold drawn spring steel in Reliance's own cold finishing mill, Reliance Spring Lock Washers are quality controlled throughout manufacture. They provide the reactive pressure over a wide reactive range to keep assemblies tighter longer. Write for Engineering Bulletin W-50 or request a visit from one of our fastening engineers.

EATON RELIANCE DIVISION MANUFACTURING COMPANY

516 CHARLES AVE. • MASSILLON, OHIO

SALES OFFICES: NEW YORK • CLEVELAND • DETROIT

CHICAGO • ST. LOUIS • SAN FRANCISCO • LOS ANGELES

. . . for more details, circle No. 65 on Reader Service Postcard

If you're out of space and lack the landing field for materials in flight or in the hangar — these test-proven tote pans are great "trouble shooters". They stack and nest in their own dimension. Lighter than aluminum, yet safely handle 3000 lb. load. One piece with colors molded-in. Can't rust, rot, corrode, dent, shatter, or warp... resist water, oil, most chemicals... withstand temperature extremes... and are non-conducting. Write for complete information.

Lewis

Complete West Coast Representation
G. B. LEWIS CO.
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WATERTOWN, WISCONSIN

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See listing in Directory Section

Conveyor for above ground bulk handling

In 20 pages you can learn all about this pipe-truss frame belt conveyor for above ground bulk handling. Manual gives dimensions and selection data for pre-engineered conveyor truss sections that can be quickly assembled by the buyer. A visual index helps you gather data on drives, pulleys, feeders, and take-ups. ***Joy Manufacturing Co.***

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Add this to your library

Mechanical Handling Systems describes this handsome treatise as a working tool, prepared to help industry take full advantage of that extremely useful device the Monoveyor. In a masterfully designed, 4-color publication, this overhead conveyor system is thoroughly examined. The indexed and tabbed divisions include application and design, chain and attachments, Monoveyor track, roller turns, takeups, drive units, and carriers and guards. This will make a real addition to your industrial library. ***Mechanical Handling Systems, Inc.***

... for your copy, circle No. 214

Basic data on vibrating conveyors

A description of the types of mechanical vibrating conveyors manufactured by Jeffrey and an explanation of the proper use of each type are presented in a 14-page bulletin compiled by that company. Good, clear photos and technical detail tell the story on the HMV heavy-duty conveyor, the MMV medium-duty, medium-weight conveyor and the LMV low-capacity, light-weight model. Added features are a helpful chart that shows conveyability and densities of typical solid materials, and easily detached mechanical vibrating conveyor data sheets. ***The Jeffrey Manufacturing Co.***

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S-A Holdback bulletin avialable

Information on the S-A standard roller type holdback, S-A totally enclosed type holdback and the S-A automatic ratchet and pawl is presented in a new brochure from StephenS-Adamson. Bulletin is designed to show conveyor and elevator operators the S-A Holdback advantages in protecting personnel and equipment against accidental reversal. W'ell illustrated with lots of data and complete specs. ***StephenS-Adamson Mfg. Co.***

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. . . Hewitt Robins has it. The company's history goes way back to 1855, and this is the outfit that produced the first rubber-covered conveyor belt. A more recent production is a dandy 36-page indexed catalog on conveyor belting that includes such helpful items as a definition of belting construction, sections on specialized belting—such as the types used in the coal and food processing industries. And there are pages and pages of engineering data on capacities, horsepower, suggested speeds, belt thicknesses, etc. Belting will be clear as day to you after a look at this. ***Hewitt Robins, Inc.***

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S-A carriers illustrated and explained

Here's a good look at S-A conveyor belt carriers at work—distributing crushed limestone in a South Dakota cement plant, piling phosphate rock in Florida, loading iron ore in Canada. For a closer look at the carrier itself there are pages and pages of comprehensive technical data, specifications and illustrations on the S-A line of ball bearing carriers, Simplex carriers, deep-trough carriers, Super Simplex carriers, impact carriers, and the remainder of the line. ***StephenS-Adamson Mfg. Co.*** **. . . for your copy, circle No. 218**

The Mighty Midget

. . . is the **only** midget conveyor. It's also the only conveyor of any kind that can be steam-cleaned to meet all sanitation requirements. This counter-top midget is featured in a 4-page bulletin on Metzgar's handling systems, along with their advanced design bearing, the bearing that requires no lubrication during its lifetime. Folder is fully illustrated and in color. ***Metzgar Conveyor Co.*** **. . . for your copy, circle No. 219**

Standard line-up

For complete information on Standard's gravity and power units, here's a handy 31-pager full of specifications and drawings on straight and curved sections, supports, the Standard Handipiler, Handibelt, Extend-o-veyor, and many other units. Other helpful items include capacity charts and typical elevation tables. Well illustrated with many detail drawings and numerous photos. ***Standard Conveyor Co.***

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Lots of power—will travel

A 4-page folder on Metzgar's power-belt conveyors and complete power and gravity conveyor systems and accessories is now available. Featured is the company's portable power helper, a sturdy unit with a capacity up to 500 lb. at a maximum 35-deg. angle. The power helper is the traveling counterpart of Metzgar's Floor-to-Floor power belt conveyor and offers Nylo lubrication-free bearings, fully adjustable height and an adjustable power tail. All products illustrated. ***Metzgar Conveyor Co.*** **. . . for your copy, circle No. 221**

The Sampson of conveyor belts

Nyfil is the trade name of the special group of fabrics with nylon cross threads used in B. F. Goodrich conveyor belts, making it possible to develop really rugged belts—with working tensions up to 200 lb. per in. per ply. For details on Nyfil construction and ideas on what this stout stuff can mean to you, Goodrich has made available a 4-page folder on the subject. ***B. F. Goodrich Industrial Products Co.***

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Zig-Zag for continuous power conveying

Dimensions and specs are only part of what you'll find in this Richards-Wilcox 64-page comprehensive catalog on their Zig-Zag continuous power conveyor and No. 2035 Safe-Rail track equipment. Entirely different from the conventional design of overhead chain conveyors, the Zig-Zag meets requirements for handling continuous production items with great flexibility. Catalog contains data on standard curves, fabricated curves, suggested suspension methods, take-ups, lubrication, and special accessories—to mention only a few of the items covered. Numerous illustrations of units at work in cleaning, painting, baking and other typical operations. ***Richards-Wilcox Mfg. Co.***

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Overhead system in pre-engineered buildings

If you have a pre-fab manufacturing plant or warehouse . . . then you need this booklet. It was written just for your installation and application of overhead handling systems. Large-scale photos tell the story here, with enough text to clarify the picture. When you get through, you see and know how overhead handling systems can do the job for you in pre-engineered buildings. ***Cleveland Tramrail Division, The Cleveland Crane & Engineering Co.***

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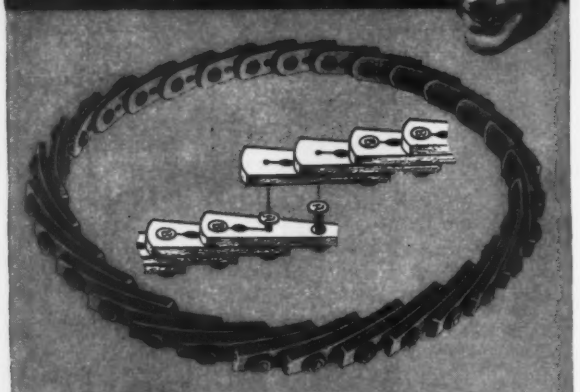

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R. & J. Dick COMPANY, INC.
PASSAIC, NEW JERSEY

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See listing in Directory Section

Conveyor belting at your service

These 12 pages spell out how this type of conveyor belting can be of service: light to heavy duty; foundry; high-heat and abrasive; moderate-heat; acid-resistant; oil-resistant; and unusual services. Under each service are detailed applications, features, specifications . . . with photos to illustrate points. ***U. S. Rubber Co.***

. . . for your copy, circle No. 225

Feeders, conveyors for packaging machinery

Included in this 12-page booklet on packaging machinery are sections on power, vibrators, feeders . . . bucket elevators . . . incline conveyors and other conveying mechanisms for this type application. ***Weigh Right Automatic Scale Co.***

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Conveyor system floats with the air

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Alvey line detailed

A bulletin from Alvey describes that company's complete line of conveying equipment for package handling. Liberally illustrated, the 15-page booklet shows applications of handling systems in a widely diversified group of industries. Concise description of projects involving conveyors from small single units to the most extensive complex systems. ***Alvey Conveyor Mfg. Co.*** **. . . for your copy, circle No. 228**

Keeps on rolling along

Link-Belt's economical conveyor will meet your conveyor needs, whatever they are, and roll on for years and years. To prove it, the company has published an information-packed 8-page brochure which takes you on an all illustrated tour of the quarries, mines, chemical companies, paper mills and construction sites where their product is efficiently at work. In addition, the meaty booklet includes an illustrated breakdown of the conveyor, and a chart giving capacity, lump size, and maximum speeds for the four belt widths available. ***Link-Belt Co.*** **. . . for your copy, circle No 229**

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30 pages of different conveyors

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Engineering data on floor conveyors

If you like tables, line drawings, charts, engineering specifications, etc., then this 48-page book on floor conveyors will give you plenty of meat. And you'll enjoy the meal because its served in easy-to-digest form, well seasoned with the spice of good prose and photography. All-in-all, a feast worth attention. ***Mechanical Handling Systems, Inc.***

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Belt type hopper car unloader

This four-page folder tells you how you can unload cars easier, faster and at lower cost. The booklet describes a true belt-type hopper car unloader rated at 300 tons of coal per hour (greater tonnages on heavier materials). The belt has no chains—friction and wear eliminated for longer life. ***Lippmann Engineering Works, Inc.***

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This conveyor handbook was designed to serve effectively both expert and layman. All but the most unusual applications can be specified from this book. A section devoted to typical applications is followed by six pages of terminal selection tables. Terminal dimensions and conveyor selection pages are followed by sections on horsepower; types of drives; speeds and loading. Three pages are devoted to belt selection. An eight-page section covers conveyor engineering data. A vital adjunct to the development is covered in a section about idlers. Attention is further directed to pulleys, take-ups, belt trippers, plows and pillow blocks. The final five pages present a resume of technical data which affords the reader a handy reference of additional aid for specifying the right conveyor. ***Jeffrey Mfg. Co.***

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M-H manuals continued on p. 136 . . .

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See advertisement on page 8

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Mont., Sidney—Richland Machinery Co., 402 E. Morrill St. Phone 518
Nev., Elko—A-D Machinery Co., 251 W. Commercial St. Phone 92.
Nev., Reno—Reno Equipment Sales Co., 1510 W. 4th St. Phone 2-7025
N. Mex., Albuquerque—Harry Cornelius Co., 1510 Second St., N.W. Phone 3-1776
N. Mex., Roswell—Smith Machinery Co., Inc., 512 E. Second St. MA 1-1812
Ore., Eugene—Pape Brothers, 1060 W. First Ave. Phone 5-0531
Ore., Medford—Haupert Tractor Co., 3610 No. Pacific Hwy. Phone 2-5279
Ore., Portland—Wood Tractor Co., 1033 S.E. Main St. BE 5-3135
Utah, Salt Lake City—Cate Equipment Co., 49 E. Ninth St. So. EL 9-2021
Wash., Seattle—A. H. Cox Co., 1757 First Ave. So. MA 1121
Wash., Spokane—American Machine Co., 1026 W. Broadway. FA 2591
Wash., Wenatchee—Mid-State Equipment Co., 313 No. Mission St. NO 2-7151
Wyo., Casper—Studer Tractor & Equipment Co., Box 779. Phone 2-5381

ALLIS-CHALMERS MFG. CO., 1400 Park Ave., Oakland 8, Calif.

Tractors (diesel, gasoline warehouse), Trucks (bag, barrel, drum, factory and warehouse, diesel fork, gasoline fork, gasoline lift, hydraulic lift, power-driven lift, pallet, paper roll).

Representatives

Ariz., Phoenix—Utility Trailer Sales Co., 1402 No. 22nd Ave. AL 4-7216
Calif., Bakersfield—California Truck & Industrial Equipment Co., 2801 Brundage. FA 5-5914
Calif., Eureka—Aikins Tractor Co., 2016 Broadway. HI 2-2986
Calif., Fresno—Utility Trailer Sales Co., 2660 So. Railroad Ave. Phone 2-2131
Calif., Los Angeles—Western Lift Equipment Corp., 3000 Santa Fe Ave. LU 1-8151
Calif., Oxnard—Power Tractor Co., 2262 No. Oxnard Blvd.
Calif., San Bernardino—H. P. Kingsley Co., 975 So. E St. Phone 473110, 92101
Calif., San Diego—Crofton Truck & Tractor Co., 10th Ave. Terminal
Calif., San Francisco—Commercial Eng. Supply Co., 470 Bayshore Blvd. VA 4-3906
Calif., Stockton—Lift Truck Service Corp., 2211 No. Highway 99. HO 6-8984

Colo., Denver—Landes, Zachary & Peterson, 275 Kalamath St. MA 3-6203
Idaho, Boise—Southern Idaho Equipment Co., 204 E. Myrtle St.
Idaho, Idaho Falls—Falls Tr. & Equip. Co., 805 W. Broadway. JA 2-6060, 2-6061
Mont., Missoula—Mountain Tractor Co., 1645 W. Broadway. Phone 6-6651
Nev., Elko—A-D Machinery Co., Inc., 251 W. Commercial. Phone 92
Nev., Reno—Reno Equipment Sales Co., 1510 W. 4th St. FA 2-7025
Ore., Portland—Charles H. Day Co., 225 S.W. First Ave. CA 2-9189
Utah, Salt Lake City—Midwest Service & Supply, 1333 So. Main St. IN 6-8795
Wash., Seattle—Materials Handling Equipment Co., Inc., 2963 First Ave. So. SE 0997
Wyo., Sheridan—KB Tractor Co., 421 No. Broadway

ALL-STATE ENGINEERING CO., INC., 7050 No. 76th St., Milwaukee 18, Wis.

Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Stackers (crane).

Representatives

Calif., Los Angeles—Utility Supply Co., 2852 Supply Ave. RA 3-9111
Calif., Oakland—Brose Co., 414 Santa Clara Ave. TE 2-4873
Colo., Denver—King & East Machinery Corp., 2390 So. Delaware Ave. SH 4-1747

ALVEY CONVEYOR MFG. CO., 9301 Olive St. Rd., St. Louis 24, Mo.

Conveyors (apron, automatic, bag and bale, belt, bucket, gravity roller, live roller, pallet, portable, skate, slat), Pallet loaders and unloaders.

Branch Office

Colo., Denver—224 W. Alameda Ave.

Representatives

Ore., Portland—McMahon Bros., Inc., 204 Fitzpatrick Bldg. CA 8-6878
Wash., Seattle—F. T. Crowe & Co., Inc., 329 2nd Ave. W. MU 8484

ALVEY-FERGUSON CO., THE, WEST COAST, INC., 1127 E. Orange, P. O. Box 136, Monrovia, Calif.

Conveyors (apron, automatic, bag, bale, belt, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, skate, slat, trolley, vertical, special and other), Elevator, Rollers, Tables, Trolleys.

AMERICAN BILTRITE RUBBER CO., INC., see **BOSTON WOVEN HOSE & RUBBER CO., A DIV.**

AMERICAN CHAIN & CABLE CO., 929 Connecticut Ave., Bridgeport 2, Conn.

Chains, Cranes (hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, "I" beam overhead, monorail overhead), Hoists (chain, electric, hand, portable, traveling), Slings (chain, wire rope), Wire Rope.

See advertisement on page 154

Branches

Calif., Los Angeles—6800 E. Acco St.
Calif., San Francisco—890 Tennessee Ave.

AMERICAN CHAIN & CABLE CO., WRIGHT HOIST DIV., see **WRIGHT HOIST DIV.**

AMERICAN CRANE & HOIST CORP., 8660 So. Atlantic Blvd., South Gate, Calif.

Cranes (double beam overhead, electric and electric traveling overhead, hand power traveling overhead, "I" beam overhead, monorail overhead), Trolleys.

AMERICAN ENGINEERING CO., Wheatsheaf Lane and Sepviva St., Philadelphia 37, Pa.

Hoists (electric, monorail), Winches and Windlasses, Car pullers.

Representatives

Calif., San Francisco—Elder & Co., 390 Seventh St. UN 1-5480
Colo., Denver—R. P. Purinton, 1863 Wazee St. AL 5-8452
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave. CA 8-2321
Wash., Seattle—Charles Ind. Sales Co., 5201 1st Ave. So. LA 6010

AMERICAN HOIST & DERRICK CO., 63 So. Robert St., St. Paul 1, Minn.

Chain fittings, Cranes (gantry, crawler, truck, locomotive), Hoists (crane, derrick, drum, electric, gasoline), Loaders and Unloaders (portable, self-propelled), Sling fittings, Wire Rope Fittings.

Branch Office

Wash., Seattle—4975 Third Ave., So. MO 9300

Representatives

Ariz., Phoenix—Cook Bros. Equip. Sales, 2300 So. 16th. AL 8-6081
Calif., Los Angeles—Cook Bros. Construction Machinery, 3332 San Fernando Rd. CL 6-3151
Calif., Oakland—Cook Bros. Truck & Equipment, 416 E. Eighth St. GL 1-0258
Colo., Denver—Constructors Equipment Co., Inc., 3611 Walnut St. AL 5-3474
Idaho, Boise—G-K Machinery Co., 5200 Federal Way. Phone 4-5593
Mont., Billings—Hall-Perry Machinery Co., 902 Central Ave. Phone 6-6864
Mont., Butte—Pioneer Equip. Supply Co., 624 Dakota St. Phone 9495
Ore., Portland—Contractors Equipment Corp., 2727 S.E. Union Ave. BE 5-4131
Wash., Seattle—Andrews Machinery of Washington, Inc., 3633 E. Marginal Way. SE 7121
Wash., Spokane—Ferris Equipment Co., Inc., 3823 E. Trent Ave. KE 5-1551

AMERICAN LIQUID GAS CORP., 1109 Santa Fe Ave., Los Angeles 21, Calif. TR 0845

LP-gas carburetion equipment, LP-gas plants, LP-gas service stations.

Branch Office

Calif., San Francisco—Hearst Bldg. GA 1-2010

AMERICAN MACHINE WORKS, INC., 1320 Clark St., Racine, Wis.

Electric wire carton stitchers, Preformed carton staplers and staples.

Representatives

Calif., Los Angeles—Cal-State Distributor, 8928 So. Figueroa
Calif., San Francisco—P. F. O'Donnell, 2298 Jerrold Ave.
Colo., Denver—Empire Staple Co., 1406 16th St.
Ore., Portland—A & W Sales, 2251 No. Interstate.

AMERICAN METAL PRODUCTS CO., 5959 Linsdale Ave., Detroit 4, Mich.

Racks (pallet, die, drum, coils, misc.)

Representatives

Ariz., Phoenix—Garrett Supply Co., 2950 W. Thomas Rd. AP 8-5511
Calif., Los Angeles—McKinley Equipment Co., 1557 Esperanza St. AN 9-0567
Calif., San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Colo., Denver—Plant Equipment Co., 1400 Market So. AL 5-5411, -2, -3
Ore., Portland—Air Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Wash., Seattle—Air Mac, Inc., 3838 Fourth Ave. So. MU 3388

AMERICAN MONORAIL CO., 13117 Athens Ave., Cleveland, Ohio

Conveyors (continuous flow, foundry, overhead, trolley), Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, monorail overhead), Hoists (monorail), Scales (monorail), Tractors (monorail), Trolleys. Continuous trolley driven conveyors manufactured by Landahl Conveyor Co., division (same Western distribution).

Branch

Calif., Compton—2310 No. Alameda St. NE 6-8127

Representatives

Ariz., Phoenix—Kistler Industrial Service, P. O. Box 1204. AL 8-7196
Calif., San Francisco—Grover Engineers, 44 McLea Ct. MA 1-2668
Ore., Portland—McMahon Brothers, Inc., 204 Fitzpatrick Bldg., CA 8-6878
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second St. So. EL 9-2171
Wash., Seattle—F. T. Crowe & Co., 325 Second Ave. W. MU 8484

AMERICAN PULLEY CO., 4200 Wissahickon Ave., Philadelphia 29, Pa.

Belting (V-belts), Pulleys (conveyor, flat belt, V-belt), Stackers (portable electric, portable hand), Trucks (bag, barrel, drum, die handling, dolly, elevating or lifting, factory and warehouse, hand, hand-lift, hand-electric lift, hand-mechanical lift, hydraulic lift, packing house, pallet, paper roll, sheet handling, skid handling, straddle, electric tiering, platform), Wheels (general industrial, hand truck, rubber tired), Barrel cradles.

Branches

Calif., Los Angeles—1238 So. Atlantic Blvd. AN 8-6061
Calif., Oakland—G. P. Weishaar, 800 51st Ave. AN 1-9681, AN1-9682
Wash., Seattle—H. F. Adams, 911 Western Ave. MU 0117

AMERICAN RUBBER MFG. CO., 1145 Park Ave., Oakland 8, Calif.

Belting (conveyor, elevator), Conveyor (belt), Idlers (conveyor).

Branches

Calif., Los Angeles—2216 S. Hill St. RI 7-0689
Ore., Portland—2939 No. Willamette Bldg.
Utah, Midvale—136 E. 7720 So. AM 5-2765
Wash., Seattle—Smith Tower. MA 4-1727

AMERICAN SISALKRAFT CORP., 55 Starkey Ave., Attleboro, Mass.

Waterproof, reinforced papers for industry, building and farm use. Packaging papers, plastics and outdoor protective materials. Moisture barrier materials.

Branches

Calif., Los Angeles—4632 W. Washington Blvd. WE 1-1051
Calif., San Francisco—55 New Montgomery St. GA 1-7106
Wash., Seattle—8403 Greenwood Ave. SU 1788

Representatives

Representated by distributors in all principal Western cities

ANTHONY CO., Streator, Ill.

Cranes (trucks), Lift gates, Hoists (hydraulic), Truck and trailer bodies.

Representatives

Ariz., Phoenix—Auto Safety House, 4343 E. Washington.
Calif., Los Angeles—Lambert Co., 1202 E. Olympic Blvd.
Calif., Oakland—C & C Trailer & Body Co., 8855 San Leandro St.
Colo., Denver—Winter-Weiss Co., 2201 Blake St.
Idaho, Boise—Dyson's Truck Equipment Co., Highway 44 and Pierce Park Lane, Rt. 1
Mont., Billings—Seitz Distributing Co., 503 No. 25th St. Phone 2-2103
N. Mex., Albuquerque—Winter-Weiss Co., 6130 No. Second St.
Ore., Portland—Northwest Truckstell Sales, Inc., 835 S. E. Hawthorne Blvd.
Utah, Salt Lake City—Utah Truck Equipment Co., 1045 So. Main St.
Wash., Seattle—Nelson Truck Equipment Co., 128 Westlake Ave. No.
Wash., Spokane—Critzer Equipment Co., E. 3804 Front St.
Wyo., Casper—Western Equip. Co., 3100 E. Yellowstone Hwy.

ARCADIA MFG. CO., 30 Santa Clara, Arcadia, Calif.

Trucks (elevating or lifting, hand lift).

ARO EQUIPMENT CORP., Enterprise & Trevitt Sts., Bryan, Ohio

Hoists (air).

Branch

Calif., Los Angeles—Aro Equipment of Calif., 3141 So. Grand Ave. RI 7-7531

Representatives

Calif., San Francisco—Cy Erb, 221 11th St. HE 1-6246
Colo., Denver—Edward P. Muller, 784 Jersey St. FR 7-5571
Wash., Seattle—Ray H. Weigel, No. Two Hanford St. SE 1620

ARROW PRODUCTS, INC., So. Ferry St., Grand Haven, Mich.

Conveyors (belt, gravity roller, live roller, portable, skate), Rollers (conveyor), Ladders (safety step).

Representatives

Ariz., Phoenix—L. J. Clarke & Co., 18 E. Lincoln St.
Ariz., Tucson—L. J. Clarke & Co., 2625 No. First Ave. Phone 4-6233
Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif., Oakland—E. C. Buehrer Assoc., Inc., 253 Fourth St. TE 6-2082
Colo., Denver—Joe Coursey Equipment Co., 1243 Walnut St. MA 6976
Ore., Portland—Oregon Handling Equipment Co., 2949 N. W. St. Helens Rd. CA 8-4196
Utah, Salt Lake City—Arnold Machinery Co., Inc., 433 W. 2nd So. DA 2-5631
Wash., Seattle—Cascade Handling Equipment Co., 1741 1st Ave. So.

ASHWORTH BROS., INC., P. O. Box 278, Winchester, Va.

Metal process belts, woven wire and flat wire designs.

Representatives

Calif., San Mateo—Charles R. Becker, 3827 Fernwood St. FI 5-3996

AURORA PUMP DIV., NEW YORK AIR BRAKE CO., 51 Loucks St., Aurora, Ill.

Pumps.

Representatives

Calif., Los Angeles—Westco Pump Sales Co., 4621 Sheila St. AN 2-1155
Calif., San Francisco—Westco Pump Sales Co., 85 Industrial St. VA 6-5104
Colo., Denver—G. M. Wallace & Co., Denham Bldg. AM 6-0386
Utah, Salt Lake City—Nickerson Pump & Mach. Co., 158 W. Fourth So. EM 4-1939
Wash., Seattle—Bernard Wills Co., 622 Western Ave. SE 7160

AUSTIN-WESTERN DIV., BALDWIN-LIMA-HAMILTON CORP., 601 No. Farnsworth Ave., Aurora, Ill.

Cranes (yard), Hoists (crane, gasoline, hydraulic, portable, traveling), Loaders, Magnets.

Representatives

Ariz., Phoenix—Western Machinery Co., 820 No. 17th Ave. AL 8-8531
Calif., Los Angeles—Smith-Booth-Usher Co., 2001 Santa Fe Ave. TR 6911
Calif., San Francisco—Edward R. Bacon Co., Folsom and 17th St. HE 1-3700
Colo., Denver—MacDonald Equipment Co., 5300 Colorado Blvd. AM 6-2641
Idaho, Boise—Engineering Sales Service, Inc., 410 Capitol Blvd. Phone 3-2535
Mont., Billings—Hall-Perry Machinery Co., 902 Central Ave. Phone 6-6864
Mont., Butte—Hall-Perry Machinery Co., 812 E. Iron St. Phone 2-2323
Mont., Great Falls—Hall-Perry Machinery Co., 1116 Fifteenth St. No. GL 2-8521
Mont., Missoula—Hall-Perry Machinery Co., 127 E. Main St. Phone 9-2617
Nev., Reno—Graid Equipment Co., 5th & No. Wells. FA 9-0456
N. Mex., Albuquerque—N. C. Ribble Co., 1304 No. Fourth St. Phone 3-3733
Ore., Portland—Columbia Equipment Co., 1240 S.E. 12th Ave. BE 2-7148
Utah, Salt Lake City—Western Machinery Co., 2300 So. Main St. IN 6-8668
Wash., Seattle—Columbia Equipment Co., 5030 First Ave. So. LA 1530
Wash., Spokane—Columbia Equipment Co., No. 1007 Freya St. KE 4-1581
Wyo., Casper—Keremi Tractor & Equipment Co., 414 So. Elm So. Phone 3-6631
Wyo., Cheyenne—Keremi Tractor & Equipment Co., 703 W. 17th. Phone 8-8922

AUTOETTE, DIV., WAYNE MFG. CO., 1201 E. Lexington Ave., Pomona, Calif.

Carts, Trucks (industrial electric, gas-electric, gasoline).

Representatives

Ariz., Phoenix—Mid-States Supply Co., 2246 E. McDowell Rd.
Calif., Bakersfield—Motor Truck Sales Service, P. O. 672
Calif., Fresno—Fresno Autoette Sales, 3038 No. Fruit Ave.
Calif., Glendale—Frankson Scooter Mart, 1032 Brand Blvd.
Calif., Long Beach—Associated Rental Service, Inc., 521 American Ave.
Calif., North Hollywood—Martin Polland, 5430 Lankershim Blvd.
Calif., Oakland—Industrial Truck Sales, 209 Brush St.
Calif., Pasadena—Steve Salisian, 250 No. Lake St.
Calif., Pomona—R&C Motors, 704 W. Holt Ave.
Calif., San Bernardino—Lloyd's Trailer & Supply Co., 207 E. Baseline
Calif., San Diego—The Scotsman Ltd., 4130 E. El Cajon Blvd.
Calif., Santa Ana—Dutton's Autoette Sales & Service, 101 No. Broadway
Calif., Santa Barbara—Electronic Enterprises Inc., 3130 State St.
Calif., Santa Cruz—Autoette of Santa Cruz, 890 38th St.
Calif., Santa Monica—Calif. Sick Room & Oxygen Service, 2500 Santa Monica Blvd.
Calif., Ventura—Darden & Randall, 52 E. Main St.
Colo., Denver—Iver J. Esbenson Co., 1725 E. 17th Ave.
Idaho, Pocatello—C. Ed Flandro, Inc., Fifth and Lewis.
Mont., Great Falls—Lease's Garden Center, 810 12th St. No.
N. Mex., Albuquerque—John McCormack, Inc., 1730 Lomas Blvd.
Ore., Portland—Braley & Graham, 1411 W. Burnside
Wash., Seattle—B. F. Shearer Co., 2318 Second Ave.
Wash., Spokane—Gill Ride Co., P. O. Box 1212
Wyo., Laramie—Knight Motors, 758 No. Third

AUTOMATIC TRANSPORTATION CO., 101 W. 87th St., Chicago 20, Ill.

Trucks (elevating or lifting, electric fork, gasoline fork, motorized hand, industrial, hand-electric lift, gasoline lift, hand lift, hand mechanical lift, hydraulic lift, power-driven lift, pallet, paper roll, sheet handling, skid handling, straddle, electric tiering).

Representatives

Calif., Huntington Park—L. J. Lutz Co., 7962 Salt Lake Ave. KI 5102
Calif., Oakland—E. C. Buehrer Associates, 253 Fourth St. TE 6-2082
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Place. EM 3-9074
Wash., Seattle—Hallidie Machinery Co., 210 Hudson St. LA 9520

AUTO SHEET METAL WORKS, 735 E. Gage Ave., Los Angeles, Calif.

Boxes for shipping (corrugated steel), Carts (hand, push), Pallets (steel), Racks (pallet storage), Tables (portable), Trucks (box type, dolly, packing house, paper roll, sheet handling, skid handling), Galleys, Cabinets (galley), Special steel fabrication.

Branch

Calif., Los Angles—735 E. Gage Ave. AD 3-4395

Representatives

Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif., Los Angeles—Irving G. King Co., 821 So. San Mateo. TU 3176
Calif., Los Angeles—Robert H. Braun Co., 5519 Jillson St. RA 3-6381
Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU6-1789
Wash., Seattle—Norwest Co., 330 Second Ave. W. MU 7820

BAKER INDUSTRIAL TRUCKS, A DIVISION OF OTIS ELEVATOR CO., 1250 W. 80th St., Cleveland 2, Ohio

All types of power industrial trucks (gasoline, electric, diesel and gas electric), Platform trucks, Cranes, Gas, Diesel and Electric Traveloaders (side loading fork truck).

Representatives

Calif., Los Angeles—Glenn A. Harshbarger Co., 588 Mateo St. MI 7491
Calif., San Diego—C. S. Goodale Co., 843 India St. CY 5-5400
Calif., San Francisco—Elder & Co., 333 Seventh St. UN 1-5480
Colo., Denver—Edward F. Taylor Co., 1237 Shoshone St. TA 5-1327
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd. CA 8-4196
Wash., Seattle—Mechanical Handling Co., 1401 W. Garfield St. GA 0200

BALDWIN-LIMA-HAMILTON CORP., So. Main St., Lima, Ohio

Lima shovels, cranes, draglines, pullshovels.

Branches

Calif., Burlingame—1452 Drake Ave. DI 3-8408
Calif., La Mirada—14120 E. Rosecrans Ave. UN 3-5762
Wash., Seattle—1932 First Ave. So. SE 5420, -1

Representatives

Ariz., Phoenix—Shriver Machinery Co., 1756 Grand Ave. AL 2-2356
Calif., Eureka—McGaraghan Supply Co., 529 Broadway. HI 3-0881
Calif., Los Angeles—Smith-Booth-Usher Co., 2001 Santa Fe Ave. TR 6911
Calif., Oakland—Bay Cities Equipment, Inc., 2792 Cypress St. TW 3-8313
Calif., Redding—Shasta Truck & Equipment Sales, So. 99 Highway. CH 3-1624
Calif., San Jose—Bay Cities Equip., Inc., 1178 W. San Carlos St.
Colo., Denver—Faris-Moritz Equipment Co., 5790 Colorado Blvd. AT 8-2684
Idaho, Boise—Feenaughty Machinery Co., 600 Front St., Phone 2-4579
Mont., Billings—Hall-Perry Machinery Co., 902 Central Ave. Phone 6-6864
Mont., Butte—Hall-Perry Machinery Co., 812 E. Iron St. Phone 2-2323
Mont., Great Falls—Hall-Perry Machinery Co., 1116 Fifteenth St. No. Phone 2-8521
Nev., Reno—Reno Equipment Sales Co., 1510 W. 4th St. FA 2-7025
N. Mex., Albuquerque—N. C. Ribble Co., 1304 No. Fourth St. Phone 3-3733
Ore., Portland—Feenaughty Machinery Co., 112 S.E. Belmont St. BE 2-2186
Utah, Salt Lake City—Heiner Equipment & Supply Co., 501 W. Seventh So. SM 3-3979
Wash., Seattle—Evans Engine & Equip. Co., 4300 11th Ave. N.W. AL 1440
Wash., Spokane—Modern Machinery Co., E. 4412 Trent Ave. KE 9353

BALDWIN-LIMA-HAMILTON CORP., see also **AUSTIN-WESTERN DIV.**

BALLYMORE CO., THE, Lincoln and Garfield Aves., West Chester, Pa.

Ladders (safety-step), Platforms (hydraulic lift), Work platforms.

Representative

Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Ore., Portland—F. E. Bennett Co., 426 N.W. 6th Ave.
Wash., Seattle—Burtch Cole Co., Inc., N. 36th & Greenwood

BARBER-GREENE CO., 400 No. Highland Ave., Aurora, Ill.

Belting (conveyor), Conveyors (belt, portable), Loaders (portable, self-propelled).

Branch

Calif., San Mateo—318 S. B St. DI 3-5828

Representatives

Ariz., Phoenix — Road Machinery Co., 716 S. Seventh St. AL 8-7981
Calif., Los Angeles—Santa Fe Equipment Co., Inc., 3000 Santa Fe Ave. LU 1-9177
Calif., San Francisco—Coast Equipment Co., 444 Eighth Ave. MA 1-5740
Calif., San Francisco—Mines Engineering and Equipment Co., 454 Montgomery St. SU 1-7224
Colo., Denver—Ray Corson Machinery Co., 350 Kalmath St. MA 0165
Idaho, Boise—Engineering Sales, Service, Inc., 410 Capitol Blvd. Phone 3-2535
Mont., Billings—Western Construction Equipment Co., 505 No. 24th St. Phone 9-5501
Nev., Reno—Sierra Machinery Co., 307 Morrill Ave. Phone 2-6981
N. Mex., Albuquerque—Contractors Equipment and Supply, 707 N.E. Broadway. Phone 3-3565
Ore., Portland—Columbia Equipment Co., 1240 S.E. 12th Ave. EA 7148
Utah, Salt Lake City—Kimball Equipment Co., 222 W. 17th St. Phone 6-6775
Utah, Salt Lake City—Mine and Smelter Supply Co., 121 W. Second So. St. Phone 3-2791
Wash., Seattle—Columbia Equipment Co., 5030 First Ave. So. LA 1530
Wash., Spokane — Columbia Equipment Co., 2604 Lamont St. MA 3459
Wyo., Cheyenne—Keremi Tractor and Equipment Co., 902 W. 22nd St. Phone 8923

BARRETT-CRAVENS CO., 630 Dundee Rd., Northbrook, Ill.

Elevators (barrel, package, portable tiering, other), Hoists (electric, hand), Racks (pallet, storage, other), Stackers (portable electric, portable hand), Tables (elevating), Tractors (electric warehouse), Trucks (bag, barrel, drum, die handling, dolly, elevating or lifting, factory and warehouse, electric fork, hand, industrial, hand lift, hand-electric lift, hand-mechanical lift, motorized hand, hydraulic lift, power-driven lift, pallet, paper roll, sheet handling, skid handling, straddle, electric tiering, other).

Representatives

Ariz., Phoenix—Kistler Industrial Service Co., 902 So. Central Ave. AL 2-7217
Calif., Fresno—Valley Forklift Rental & Equipment Co., 2424 So. Railroad Ave. Phone 8-2674

Calif., Los Angeles—Irving G. King & Co., 821 Mateo St. TU 8176
Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Colo., Denver—King & East Machinery Corp., 2890 So. Delaware. SH 4-1747
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave. CA 8-2321
Utah, Salt Lake City—Arnold Machinery, 433 W. Second So. St. Phone 22-5631
Wash., Seattle—Materials Handling Equipment Co., 2963 First Ave. So. SE 0997
Wash., Spokane—Standard Cycle & Supply Co., 1811 E. Sprague. LA 1321

BASSICK CO., 3045 Fairfield Ave., Bridgeport, Conn.

Casters, Wheels (general industrial, hand truck, rubber tired).

Branches

Calif., South San Francisco—124 So. Airport Blvd. JU 3-1740
Calif., Vernon—3320 Fruitland Rd. LO 8-5528

Representative

Utah, Salt Lake City—E. C. Coffin Co., 1661 48th So. St.

BATHEY MFG. CO., 100 So. Mill St., Plymouth, Mich.

Bins, Boxes (tote), Hoppers, Racks (pallet, storage).

Representatives

Calif., Los Angeles — McKinley Equipment Corp., 1557 Esperanza. AN 3-4203
Calif., Oakland—Green-Penny Co., 2211 San Pablo Ave. GL 1-8555

BAUGHMAN MANUFACTURING CO., INC., Shipman Rd., Jerseyville, Ill.

Conveyors (belt, bucket, foundry, portable, screw), Elevators (belt, bucket), Bulk feed bodies.

Representatives

Ariz., Marana—Marana Equipment, Inc.
Ariz., Phoenix—Guerin Implement Co., 1401 So. Central Ave.
Ariz., Phoenix—Superior Equipment Co., 2402 So. 14th Ave. AL 3-2116
Ariz., Phoenix—Western Machinery Co., 124 E. Buchanan. Phone 3-4101
Calif., Los Angeles—Hurt Conveyor Co., 1415 Mateo St. TR 6408
Calif., Modesto—Hengst & Curran, P. O. Box 323
Calif., Riverside—Hudson Sales Co., 4905 Arlington Ave. Phone 1-1637
Calif., Turlock—Lakeside Industries, Hwy. 99, So. Phone 2-1386
Colo., Denver — Gunderson-Taylor Machinery Co., 1237 Shoshone St. TA 5-1327
Idaho, Boise—Starline Equipment Co., 503 So. 16th St. Phone 4-3321
Mont., Billings—Industrial Equipment Co., 415 No. 27th St.
Mont., Kalispell—Treasure State Equipment Co. Phone 158-L
Ore., Amity—Burlingham Meeker Co.
Tex., El Paso—Border Machinery Co., 1710 E. Paisano Dr. Phone 3-7565
Utah, Salt Lake City—Lund Machinery Co., 49 So. Second W. St. Phone 3-8828
Utah, Salt Lake City— W. H. Pingree Co., 461 E. Second So. St. EM 3-6732
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave., So. MU 3388
Wash., Seattle—Thurlow-Moe, Inc., 2405 11th St., S.W. EL 5743
Wyo., Casper—Studer Tractor & Equipment Co., 2350 E. Yellowstone Hwy. Phone 2-5381

A. J. BAYER CO., 2300 E. Slauson Ave., Los Angeles 58, Calif., LU 5-2171

Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, skate, slat, trolley, vertical), Dock Boards, Elevators (barrel, package, etc.), Pulleys, Conveyor Rollers, Conveying Tables, Conveyor Wheels.

Branch Offices

Calif., Oakland—1131 Sixth Ave. TE 4-8571
Ore., Portland—80 S.E. Taylor. BE 6-6063

BEACON MACHINERY, INC., Box 188, East St. Louis, Ill.

Automatic pallet loaders, unloaders, stackers and dispensers; Corrugated box compressors; Dock boards; Hydraulic bridge-lifts; Hydraulic hoists; Hydraulic jacks.

Representatives

Calif., North Hollywood—Magesco, 7340 Radford Ave. ST 7-0838
Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Wash., Seattle—Materials Handling Equipment Co., 2963 First St. So. SE 0997

BEAM PRODUCTS MFG. CO., 3040 Rosslyn St., Los Angeles 65, Calif. CH 5-5791

LP gas conversion equipment.

Branch Office

Ore., Portland—8205 S.E. Cornwell. BE 2-0700

Representatives

Ariz., Tempe—Dana Butane & Equipment Co., 402 W. 1st St. WO 7-2404
Calif., Anaheim—Harry I. Horn Co., 1251 No. Palm. KE 5-2173
Calif., Fresno—Butane Service, 1027 No. Crystal. AD 3-7854
Calif., Fresno—Cities Fuel Corp., P. O. Box 4048
Calif., Grass Valley—Glenbrook Gas Co. Rt. 1
Calif., Lancaster—Lancaster Gas Co., 44081 No. Sierra Hwy. WH 2-5117
Calif., Lemoore—Lemoore Service & Auto Supply, 41 E St.
Calif., Los Angeles—Butane Carburetor Service, 1206 E. Sixth St. VA 7771
Calif., Modesto—J. S. West & Co., 709 Ninth St. Phone 5901
Calif., Oakland—Electric Service Co., 643 E. Eighth St. TE 4-9944
Calif., Pasadena—Glotane Corp., 250 No. Foothill Blvd. SY 6-8936
Calif., San Diego—Growes Butane Equipment, 4777 Seminold Dr. JU 2-6653
Calif., San Francisco—California Gas Service, 240 Montgomery St. YU 6-6417
Calif., San Francisco—Calor Gas Equipment Co., 114 Sansome St.
Calif., San Jose—Hennessey Butane, 2030 So. First St. CY 3-5676, -7
Calif., Thermal—Thermal Gas, Inc. P. O. Box 817. Phone 9-5445
Calif., Upland—Suburban Gas Service, Inc., 60 E. Foothill Blvd. YU 2-1542
Colo., Denver—Gas Equipment Co., 1485 Brentwood. BE 3-2474
Mont., Billings—Power Transmission Equipment Co., 15 No. 33rd St. Phone 4-4185
N. Mex., Albuquerque—Alpha Engineering, 245 Woodward Rd. S.E. CH 2-8054
N. Mex., Albuquerque—Navajo Gas Co., 5018 Second Ave. N.W. Phone 3-3466
Ore., Eugene—Magic Gas Co., 2810 W. Sixth St. DI 4-2283
Ore., Portland—Multnomah Fuel Co., 4700 S.W. MacAdam. CA 8-0141
Ore., Portland—W. W. Burgess, 8205 S.E. Cornwell. BE 0700
Utah, Salt Lake City—Rocky Mountain Gas Co., 1212 Beck St. DA 2-5878

BELL & GOSSETT CO., see **MARLOW PUMPS, A DIV.**

BELT CORP., 5314 Mill St., Orient, Ohio

Conveyors (bag and bale, belt, chain or link, flight, portable, gravity wheel).

Representatives

Ariz., Phoenix—Overstreet & Kininmonth, P. O. Box 2406
Calif., Huntington Park—Western Materials Handling Corp., 7810 Salt Lake Ave.
Calif., San Francisco—Industrial Vibrator & Machinery Corp., 7 Front St.
Colo., Denver—Murray Sales Co., 16 Wazee St.
Mont., Billings—Power Transmission Equipment, 20 No. 33rd St.
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl.
Wash., Seattle—Temco Co., 101 Jones Bldg., 1331 Third Ave.

BEMIS BRO. BAG CO., 408 Pine St., P. O. Box 113, St. Louis 2, Mo.

Bags (burlap, multi-wall, polyethylene, shipping), Packaging machinery, Paper specialties.

Branches

Ariz., Phoenix—2202 W. McDowell Rd. AL 2-2222
Calif., San Francisco—1000 Sansome St. GA 1-2383
Calif., Wilmington—920 E. Pacific Coast Hwy. TE 5-3111
Colo., Denver—426 Guaranty Bank Bldg. TA 5-6348
Idaho, Boise—204 McCarty Bldg. Phone 2-2192
Utah, Salt Lake City—1101 Walker Bank Bldg., DA 2-5591
Wash., Seattle—65 Atlantic St. EL 0660
Wash., Vancouver—1401 W. 26th St. OX 4-1523

BENNETT PUMP DIV. see **JOHN WOOD CO., BENNETT PUMP DIV.**

BERGER DIV., REPUBLIC STEEL CORP., 1038 Belden Ave., Canton 5, Ohio.

Steel barrels, Steel baskets, Tote boxes, Pallet racks, Skids.

Branches

Calif., Los Angeles—5424 E. Slauson Ave. RA 3-3327
Ore., Portland—1801 N.W. Northrup St. CA 8944

Representative

Calif., Oakland—Petley, Inc., 899 73rd Ave. TR 2-7621

BERGER ENGINEERING CO., 3236 16th Ave. S. W., Seattle 4, Wash. MU 4280

Cranes (gantry, jib, double beam overhead, electric and electric traveling overhead), Hoists (crane, derrick, drum, electric), Winches.

BETHLEHEM PACIFIC COAST STEEL CORP., 20th & Illinois Sts., San Francisco 19, Calif.

Wire Rope, Wire Rope Slings.

Sales Offices

Ariz., Phoenix—213 No. 1st Ave. AL 4-7502
Calif., Los Angeles—6000 So. Boyle. LO 8-3041
Ore., Portland—1010 S.W. 14th Ave. CA 2-1841
Wash., Seattle—3651 E. Marginal Way. AV 1100
Wash., Spokane—West 725 Sprague. TE 8-3671

BLACKMAN PLASTICS, 5883 Blackwelder St., Culver City, Calif. TE 0-4821

Baskets (plastic), Boxes, tote, Carts (box truck), Racks (plastic), Trucks (box type).

BLACKMER PUMP CO., 1809 Century S. W., Grand Rapids 9, Mich.

Pumps (liquid handling).

Branch

Calif., San Francisco—605 Third St. YU 2-3223

BODINSON MFG. CO., 2401 Bayshore Blvd., San Francisco 24, Calif. JU 5-9641

Bins, Conveyors (apron, belt, bucket, drag, flight, portable), Elevators (barrel, package, belt, bucket), Pulleys (conveyor), Stackers (portable electric), Tables (conveying).

BOMAN CO., THE, 3316 E. Olympic Blvd., Los Angeles 23, Calif. AN 9-0761

Conveyors (gravity roller, skate), Cranes (yard, truck, tractor), Elevators (portable tiering), Hoists (chain), Rollers (conveyor, other), Stackers (portable electric, portable hand), Tires (industrial truck and trailer), Trailers (factory and warehouse), Trucks (bag, barrel, drum, elevating or lifting, electric fork, gasoline fork, hand, motorized hand, industrial, gasoline lift, hand lift, hand-mechanical lift, hydraulic lift, power-driven lift, pallet, paper roll, skid handling), Wheels (conveyor, hand truck, rubber tired, tractor, trailer).

BOND FOUNDRY & MACHINE CO., Manheim, Pa.

Truck casters, Wheels, Hand trucks, Steel bench legs, Mechanical power transmitting equipment.

Branch Office

Calif., Los Angeles—1044 W. 75th St. PL 8-6478

Representatives

Calif., Los Angeles—Green-Penny Co., 4180 E. Noakes St.
Calif., Los Angeles—Utilities Supply Co., 1736 E. 15th St.
Calif., San Francisco—Marshall-Newell Supply Co., Spear and Mission Sts.

BORG WARNER CORP., see **INDUSTRIAL CRANE & HOIST, INDUSTRIAL PRODUCTS DIV.,** see also **INGERSOLL KALAMAZOO DIV.**

BORROUGHS MFG. CO., 3000 No. Burdick St., Kalamazoo, Mich.

Bins, Racks (storage), Shelving.

Representatives

Calif., Fresno—Healey & Co., 3202 Tulare St. AM 8-6381

Calif., Los Angeles—Hart-Cobb-Carley, 2439 So. Yates Ave. RA 3-8851
Calif., Oakand—Wm. A. Gore, 1834 Adeline St. TW 3-7233
Calif., Sacramento—Paul W. Roeder Co., P. O. Box 1552, 1228 "H" St., Rear. GI 8-8550
Calif., San Diego—Parron-Hall Corp., 2nd & C Sts. BE 9-0348
Colo., Denver—Sparkman-Barker, 421 Santa Fe Drive. KE 4-1328
Ore., Portland—Brower Co., 1616 N.W. Glisan. CA 8-8774
Wash., Seattle—Brower Co., 114 Virginia St. MU 0464
Wash., Seattle—Wm. A. Gore, 1732 First St. So. MU 2-2151

BOSTON WOVEN HOSE & RUBBER CO., A DIV. OF AMERICAN BILTRITE RUBBER CO., INC., 29 Hampshire St., Cambridge, Mass. Mailing address: P. O. Box 1071, Boston.

Belting (conveyor, elevator, endless), Conveyors (belt), Elevators (belt), Packing material.

Branches

Calif., Los Angeles—Lippincott Co., 1052 W. Sixth St.
Calif., San Francisco—Lippincott Co., 995 Market St.
Colo., Denver—1925 Blake St.
Wash., Seattle—Lippincott Co., 911 Western Ave.

Representatives

Ariz., Phoenix—Construction & Mining Supply Co., P. O. Box 6384
Ariz., Phoenix—Equipment Sales Co., 720 So. 19th Ave.
Ariz., Tucson—G. A. Hybl, 2147 E. Second St. EA 6-5965
Ariz., Tucson—Tucson Pipe & Supply Co., 195 So. Tyndall Ave.
Calif., Los Angeles—Warren & Bailey Co., 3528 Garfield Ave.
Calif., Palos Verdes Estates—C. W. Kline, 977 Via Del Monte. FR 8-1398
Calif., San Francisco—Gilmore Supply Co., 840 Brannan St.
Colo., Denver—Johnson Supply Co., 1123 Wazee St.
Colo., Denver—J. H. Steffensen, 1925 Blake St. AL 5-3756
Idaho, Boise—Engineering Sales Service, Inc., 410 Capitol Blvd.
Mont., Billings—Bearings Supply Co., 15 No. 31st St.
N. Mex., Albuquerque—Harry Cornelius Co., P. O. Box 563
N. Mex., Carlsbad—Automotive & Industrial Supply Co., 310 So. Canyon
Ore., Portland—Goodyear Rubber & Asbestos Co., 205 N.W. Fifth Ave.
Utah, Salt Lake City—G. S. Moffat, 1016 Military Dr. DA 2-3612
Utah, Salt Lake City—Mountain States Rubber Co., 123 Social Hall Ave.
Wash., Seattle—Steam Supply & Rubber Co., 123 Jackson St.
Wash., Spokane—Towne Equipment Co., 622 No. Monroe St.

BOSWORTH MFG. CO., Mills Rd., Avon, Ohio

Conveyors (bag, bale, belt, continuous flow, drag, flight, foundry, portable, vertical, magnetic), Elevators (bucket), Pulleys (conveyor).

Representatives

Colo., Denver—Murray Sales Co., 16 Wazee Market
Mont., Billings—Lefler & Wyomont Supply, 234 Stapleton Bldg.
Mont., Missoula—Missoula Mercantile Co.
Ore., Portland—Oregon Handling Equipment, 2949 N.W. St. Helens Rd.
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St.
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl.
Wash., Seattle—Nelson Truck & Equipment, 128 W. Lake No.
Wash., Seattle—K. O. Pearson, 7202 Rainier Ave.

W. H. BRADY CO., 727 W. Glendale Ave., Milwaukee 12, Wis.

Tape (printed roll), Markers (individual self-sticking numbers and letters), Tags and labels.

Branch

Calif., Los Angeles—923 E. 3rd St. MA 6-2896

Representatives

Ariz., Phoenix—Graybar Electric Co., 434 W. Madison St. AL 3-6131
Calif., Fresno—Graybar Electric Co., 101 Van Ness Ave. FR 2-4175
Calif., Long Beach—Graybar Electric Co., 300 W. 16th St. Phone 70-2911
Calif., Los Angeles—Electrical Specialty Co., 2820 E. 12th St. MI 1907
Calif., Los Angeles—Graybar Electric Co., 210 Anderson St. AN 3-7282
Calif., Oakland—Graybar Electric Co., 1911 Union St. GL 1-5451
Calif., Sacramento—Graybar Electric Co., 1900 Fourteenth St. GI 2-8976
Calif., San Bernardino—Graybar Electric Co., 655 H St. Phone 9-1051
Calif., San Diego—Graybar Electric Co., 720 State St. FR 1361
Calif., San Francisco—Electrical Specialty Co., 158-168 11th St. HE 1-5116
Calif., San Francisco—Graybar Electric Co., 1750 Alameda St. MA 1-5131
Calif., Santa Ana—Graybar Electric Co., 301 French St. KI 3-8309
Colo., Denver—Electrical Specialty Co., 1101 Stout St. CH 4588
Colo., Denver—Graybar Electric Co., 104 Wazee Market. TA 7116
Idaho, Boise—Graybar Electric Co., 1325 Idaho St. Phone 2-4501
Mont., Butte—Graybar Electric Co., 604 E. Aluminum St. Phone 3233
Ore., Eugene—Graybar Electric Co., 2180 Sixth Ave. W. Phone 4-2224
Ore., Portland 5—Electrical Specialty Co., 1224 S.W. Morrison. CA 7-3188
Ore., Portland—Graybar Electric Co., Park and Flanders Sts. BR 6641
Utah, Salt Lake City—Graybar Electric Co., 336 No. Third W. St. Phone 9-8771
Wash., Seattle—Graybar Electric Co., King and Occidental Sts. MU 0123
Wash., Seattle—Electrical Specialty Co., 2406 First Ave. So. EL 8061
Wash., Spokane—Graybar Electric Co., 1033 W. Gardner Ave. RI 3151
Wash., Tacoma—Graybar Electric Co., 2112 A St. MA 0164

BRAINARD STEEL DIV. OF SHARON STEEL CORP., Larchmont Ave., Warren, Ohio

Steel strapping, Strapping tools and accessories for packaging and carloading.

Branch

Calif., San Francisco—680 Beach St. PR 6-0270

Representatives

Calif., Eureka—Eureka Boiler Works, Foot of "S" St. HI 3-1681
Calif., Redding—Gerlinger Steel & Supply, 1527 Sacramento St. Phone 2330
Calif., San Gabriel—Wes Bender Sales Co., 582 No. Alhambra. CU 3-6062
Ore., Eugene—Harmer Mill & Logging Supply, 209 Polk St. EU 5-0317
Ore., Portland—Harmer Steel Products & Supply Co., 1517 N.W. Hoyt St. CA 3-3117

BRODERICK & BASCOM ROPE CO., 4203 Union Blvd., St. Louis 15, Mo.

Slings (wire rope), Wire Rope.

Branches

Calif., Los Angeles—2441 Hunter St. TR 2857
Calif., San Francisco—44 Potrero Ave. UN 3-3567
Ore., Portland—1518 N.W. Marshall. CA 7-2244
Wash., Seattle—655 Edmunds St. MA 1600

Representatives

(Represented by distributors throughout all Western states)
Factory at Seattle, Wash.

BRONCO PRODUCTS CO., 717 Stanford Ave., Los Angeles, Calif.

Dock boards (magnesium), Ramps (magnesium), Wheels (general industrial, hand truck, rubber tired, trailer).

Representatives

(Dealers and distributors in all major cities in the West.)

BROOKS & PERKINS, INC., 1950 W. Fort St., Detroit 16, Mich.

Carts (hand and push), Racks (transfer), Trucks (bag, barrel, drum, box type, dolly, factory and warehouse, hand, pallet, platform, garment).

Branch Office

Calif., North Hollywood—11655 Vanowen. ST. 7-9665

Representatives

Ariz., Phoenix—Vetcoa Supply Corp., 710 So. 35th Ave.
Calif., Los Angeles—Continental Metals, Inc., 7001 Santa Monica Blvd.
Calif., Los Angeles—Davis Material Handling Co., 5649 Alhambra Ave.
Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza St.
Calif., Los Angeles—Stanley E. Morris Co., 5584 Alhambra Ave.
Calif., Oakland—Industrial Service Co., 616 McClary Ave.
Colo., Denver—Armstrong Caster Co., 465 Santa Fe Dr.
Ore., Portland—Oregon Handling Equipment, 2949 N.W. St. Helens Rd.
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second So. St.
Wash., Seattle—Materials Handling Equipment, 2963 First Ave. So.
Wash., Seattle—Seccords Sales Co., 95 Connecticut St.

BROWN RUBBER CO., 733 Stanford Ave., Los Angeles 21, Calif.

Belting (resurfacing, repair), Bumpers (rubber loading dock), Rollers, Slings (rubber covered), Tires (industrial truck and trailer), Wheels (conveyor, general industrial, hand truck, rubber tired, tractor, trailer).

Representatives

Calif., Fresno—Pope Tire Co., 1709 Broadway
Calif., Los Angeles—Willumsen Tire Co., 718 E. Eighth St. MI 7545
Calif., San Diego—Winn Supply Co., 256 Seventh Ave.
Calif., Santa Barbara—Joe Dal Pozzo & Son, 530 Chapala St.
Calif., Wilmington—John R. Ruby, Sr., 3342 Norton Ave., Lynwood
Colo., Denver—Raymond F. Purinton, Jr., 1754 Blake St.
Wash., Seattle—Standard Pacific Co. 2750 3rd Ave. So. SE 2745

BROWN TRAILERS, INC., E. 6328 Utah, Spokane, Wash. KE 5-1641

Boxes for shipping (aluminum), Boxes, tote (aluminum), Trailers (factory and warehouse, motor truck and tractor), Truck bodies (aluminum).

Representatives

Ariz., Phoenix—Superior Coach Sales & Service, 2928 E. Washington St.
Calif., Fresno—C & C Trailer & Body Co., P. O. Box 1781
Calif., Los Angeles—C & C Trailer & Body Co., 6100 E. Washington Blvd.
Calif., Oakland—C & C Trailer & Body Co., 8855 San Leandro St.
Calif., Pomona—Win Ward Co., P. O. Box 1329
Calif., San Diego—Win Ward Co., 2970 Main St.
Calif., West Sacramento—C & C Trailer & Body Co., P. O. Box 35
Colo., Denver—Brown Trailer Co., 2430 E. 40th Ave.
Colo., Denver—Woeber Auto Body & Mfg. Co., 4950 Jackson St.
Idaho, Boise—Hibbard Truck Body Works, Inc., 1026 LaPointe
Mont., Billings — Montana Trailer Sales & Equipment Co., P. O. Box 1702
Mont., Missoula—Bud Lake Truck Stop, P. O. Box 850.
Ore., Portland—Douglas Hood Co., 1947 N.W. Overton St.
Ore., Portland—Northwest Truckstell Sales, Inc., 835 S.E. Hawthorne Blvd.
Utah, Salt Lake City—Transport Equip. Ctr., 551 So. 1st W.
Wash., Everett—Aalbu Bros. Body Co., 2927 Grand St.
Wash., North Bend—Quitslund Bodies & Equipment
Wash., Seattle—Allied Body Works, Inc., 2215 Fourth Ave., So.
Wash., Seattle—George Heiser Body Co., 1300 Dearborn
Wash., Seattle—J. E. Ochiltree Co., 628 Hanford St.
Wash., Seattle—West Street Carriage Co., 580 Broad St.
Wash., Spokane—Leland Trailer Co., P. O. Box 217, Parkwater Sta.
Wash., Tacoma—Holte Trucking Equipment, 2545 Jefferson St.
Wash., Union Gap (Yakima)—Mair & Son
Wash., Wenatchee—E. T. Pybus & Co.

BRUMMELER STEEL PRODUCTS CORP., 1750 Alpine Ave., N.W., Grand Rapids, Mich.

Steel boxes, Pallets, Skids, Hoppers, Racks, Hand trucks, Special handling equipment.

Representatives

Calif., Los Angeles—Colson Equipment & Supply, 1317 Willow St. TR 5743
Calif., San Francisco—Hamerslag Equipment Co., 45 Elmira. JU 7-1357

BUCYRUS-ERIE CO., South Milwaukee, Wis.

Cranes (yard, truck, tractor).

Branches

Calif., Los Angeles—530 W. Sixth St. MI 9642
Calif., South San Francisco—120 Freeway St. PL 5-7436

Wash., Seattle—4447 White-Henry-Stuart Bldg. MA 6424

Representatives

Ariz., Phoenix—Road Machinery Co., 716 So. Seventh St.
Calif., Bakersfield—Crook Co., 2314 No. Chester
Calif., Berkeley—West Coast Engine & Equipment Co., 1055 Eastshore Hwy.
Calif., Los Angeles—Crook Co., 2900 Santa Fe Ave.
Colo., Denver—Colorado Builders Supply Co., 1534 Blake St.
Idaho, Boise—Intermountain Equipment Co., Broadway at Myrtle St.
Idaho, Pocatello — Intermountain Equipment Co., 210 No. Fourth Ave.
Mont., Billings—Great Northern Tool & Supply Co., P. O. Box 957
Mont., Kalispell—Westmont Tractor Co., 55 3rd Ave. E.
Mont., Missoula—Westmont Tractor Co., 150 E. Spruce St.
Nev., Reno—Sanford Tractor & Equipment Co., No. Valley Rd.
N. Mex., Albuquerque—R. L. Harrison Co., 1801 Fourth St. N.W.
Ore., Portland—Clyde Equipment Co., 1631 N.W. Thurman St.
Utah, Salt Lake City—Lang Construction Equipment Co., 267 W. First So. St.
Wash., Seattle—Clyde Equipment Co., 3410 First Ave. So.
Wash., Spokane — Intermountain Equipment Co., E. 611 Sprague Ave.

BUDA DIV., see **ALLIS-CHALMERS MFG. CO., BUDA DIV.**

BUFFALO WEAVING & BELTING CO., 260 Chandler St., Buffalo 7, N. Y.

Conveyor belting (cotton, rubber, Plastex), Slings (woven cotton).

Branch

Calif., Pasadena—1730 Homet. SY 2-4038

Representatives

Calif., Los Angeles—Lacal Co., Inc., 5931 Avalon Blvd.
Calif., Los Angeles—Pacific Mill & Mine Supply Co., Inc., 2338 E. Eighth St.
Calif., Los Angeles—Western Belting & Mechanicals, Inc., 3525 E. Emery St.
Calif., San Francisco—Gilmore Steel & Supply Co., 840 Brannan St.

BULLDOG PALLET CO., Haley Rd., P. O. Box 547, Newark, Calif.

Bins, Pallets, Pallet Shook, Pallet and box nails.

BUMPERS, INC., 2534 Detroit Ave., Cleveland 13, Ohio.

Rubberdock bumpers for loading docks.

Representatives

Calif., Oakland—Industrial Service Co., 616 McClary St. LO 9-2545
Calif., San Francisco—Hamerslag Equip. Co., 110 Freeway Blvd. JU 6-1789
Colo., Denver—Plant Equipment Co., 1863 Wazee St. AL 5413
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

BURLINGTON FABRICATORS, INC., Burlington, N. J.

Drive-in pallet racks.

Representatives

Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So.

BUSCHMAN, E. W., CO., THE, 4537 Clifton Ave., Cincinnati 32, Ohio

Conveyors (apron, automatic, bag and bale, belt, chain or link, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, skate, slat, trolley, special).

Representatives

Calif., Alhambra—Geo. M. Prescott Co., 825 So. Fremont Ave. CU 3-3114
Calif., San Francisco—Geo. M. Prescott Co., 7 Front St.
Colo., Denver—Landes, Zachary and Peterson, 275 Kalamath St. (also serves N. Mex.)
Wash., Seattle—Geo. M. Prescott Co., 4012 E. 38th St.

BUTLER MFG. CO., SPECIAL PRODUCTS DIV., 7400 E. 13th St., Kansas City, Mo.

Racks (pallet).

Branch

Calif., Richmond—So. 27th and Butler. EN 1-1001
Calif., South Gate—4014 Firestone Blvd. LO 7-2303

C & D BATTERIES, INC., Washington and Cherry Sts., Conshohocken, Pa.

Batteries

Branches

Ariz., Phoenix—213 N. 1st Ave. AL 4-1383
Calif., La Jolla—722 Fern Glen. GL 4-6757
Calif., Los Angeles—1014 Venice Bldg. RI 9-4471
Calif., San Francisco—324 Fifth St. SU 1-6591
Colo., Denver—1732 Blake St. CH 4-1102
Ore., Portland—208 S.W. Stark St. CA 8-9211
Wash., Spokane—E. 125 Mission St. FA 5-5379

CADY METAL FABRICATING CO., 88 Schenck St., North Tonawanda, N. Y.

Pallet lifters for crane handling of palletized materials.

Representatives

Calif., Los Angeles—Stanley E. Morris Co., 5584 Alhambra Ave. CA 1-5148

CALDWELL CO., INC., THE, 1123 Fourth Ave., Rockford, Ill.

Slings (nylon and dacron, wire rope, and chain equalizing).

Representatives

Ariz., Phoenix—Vetcoa Supply Corp., 710 So. 35th Ave.
Calif., Los Angeles—Green-Penny Co., 421 E. Washington. RI 8-1191
Calif., Oakland—Green-Penny Co., 2211 San Pablo. GL 1-8555
Colo., Denver—J. D. Whiting, P. O. Box 3382. GR 7-2134
Utah, Salt Lake City—Rocky Mountain Mchy., P. O. Box 2037. HU 4-4378

CAMBRIDGE WIRE CLOTH CO., Cambridge, Md.

Baskets (metal, wire, heat treating), Belting (wire), Conveyors (woven wire), Slings (woven wire).

Branch

Calif., San Francisco—420 Market St. YU 6-4503

CAMPBELL CHAIN CO., Norway St., York, Pa.

Chains, Slings (chain).

Branches

Calif., Los Angeles—2960 Leonis Blvd. LU 3-4251
Calif., Sacramento—712 R St.
Calif., South San Francisco—196 Freeway. PL 6-0088
Ore., Portland—3085 N.W. Front St. CA 3-4187, 3-4188
Utah, Salt Lake City—230 So. 4th W.
Wash., Seattle—6901 E. Marginal Way. RA 3800

Representatives

Industrial distributors throughout the West.

CARRIER CONVEYOR CORP., 211 No. Jackson, Louisville, Ky.

Conveyors (vibrating), Elevators (vibrating spiral), Tables (vibrating), Vibrators.

Representatives

Calif., Los Angeles—E. M. Underwood & Associates, 3319 Beverly Blvd. DU 2-1375
Calif., San Francisco—Rodman & Co., 420 Market St. YU 2-0824
Colo., Denver—Alldredge & McCabe, 847 E. 17th St. TR 1-7450
Ore., Portland—Bumstead-Woolford Co., 320 S.W. Stark St. CA 8-6686
Utah, Salt Lake City—Western Sales Engineering Co., 375 S.W. Temple St. DA 2-4311
Wash., Seattle—Bumstead-Woolford Co., 1141 Fourth Ave. EL 4915

CARTER-MILLER MILL FURNISHING CO., 1324 No. Ash St., Spokane 11, Wash.

Belting (conveyor, fabric, canvas, elevator), Carts (hand, push), Conveyors (bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, portable, screw, skate, slat, vertical), Elevators (belt, bucket, continuous flow), Loaders (portable, self-propelled), Pulleys (conveyor), Rollers (conveyor), Stackers (portable electric), Tables (conveying), Trucks (bag, barrel, drum, box type, hand), Wheels (conveyor), Dumpers (seed box, hand, power).

CATERPILLAR TRACTOR CO., Peoria 8, Ill.

Loaders (portable, self-propelled), Tractors (diesel).

Branches

Calif., San Francisco—120 Montgomery St.
Ariz., Phoenix—Arizona Machinery Co., 2705 W. Thomas Rd.
Ariz., Yuma—Braden Machinery Co., Hwy. 95th & Arizona Ave.
Calif., Blythe—Honnen Machinery Co., West Hobson Way
Calif., Chico—Sierra Tractor & Equipment Co., 1240 Park Ave.
Calif., Colusa—I. G. Zumwalt Co., 850 Market St.
Calif., El Centro—Faure Tractor & Equipment Co., 1414 W. Main St.
Calif., Eureka — Brizard-Matthews Machinery Co., 3990 Broadway
Calif., Fresno—Budd & Quinn, Inc., 1645 H St.
Calif., Hanford—Davies Machinery Co., 112 E. Seventh
Calif., Los Angeles—Shepherd Tractor & Equipment Co., 3400 So. San Gabriel River Pkwy.
Calif., Marysville—Marysville Tractor & Equipment Co., 712 Third St.
Calif., Modesto—Valley Tractor & Equipment Co., 104 Ninth St.
Calif., Napa—Berglund Tractor & Equipment Co., 1016 Soscol Ave.
Calif., Oxnard—Wallace Machinery Co., 625 No. Oxnard Blvd.
Calif., Riverside—Johnson Tractor Co., 3133 Seventh St.
Calif., Sacramento—Weaver Tractor Co., 1900 T St.
Calif., Salinas—Pringle Tractor Co., 110 Abbott
Calif., San Diego—Hawthorne Machinery Co., 701 First Ave.
Calif., San Jose—Ditz Bros., 1699 So. First St.
Calif., San Leandro—Peterson Tractor & Equipment Co., 955 First Ave.
Calif., Stockton—Holt Bros., Borden Highway
Calif., Visalia—Quinn Co., 721 E. Main St.
Colo., Denver—McCoy Co., 60th and Colorado Blvd.
Idaho, Boise—Western Equipment Co., 4009 Fairview Ave.
Idaho, Lewiston—Nez Perce Tractor & Equipment Co., Second and C Sts.
Mont., Billings—Nash-Davis Machinery Co., 1145 Highway 10 East
Mont., Great Falls—Central Machinery Co., 721 Second St. So.
Mont., Missoula—Westmont Tractor Co., 150 E. Spruce St.
Mont., Sidney—Tractor & Equipment Co., 201 No. Central
Nev., Las Vegas—James Cashman Co., 109 No. Main St.
Nev., Reno—Crooks Bros. Tractor Co., Dickerson
N. Mex., Albuquerque—R. L. Harrison Co., 1801 Fourth St. N.W.
Ore., Eugene—Pape Bros., Inc., 1865 W. 6th Ave.
Ore., Klamath Falls—Crater Lake Machinery Co., 1410 So. Sixth St.
Ore., La Grande—Inland Machinery Co., 212 Greenwood St.
Ore., Pendleton—Empire Machinery Co., 1849 S.W. Court Ave.
Ore., Portland—Halton Tractor Co., 2439 N.W. 29th Ave.
Utah, Salt Lake City—Wheeler Machinery Co., 245 W. So. Temple
Wash., Seattle—Northern Commercial Co., 427 Colman Bldg.
Wash., Tacoma—Murphy-Campbell Co., 2719 So. Tacoma Way
Wash., Walla Walla—Stone Machinery Co., 102 E. Poplar St.
Wash., Wenatchee—Columbia Tractor Co., Chelan Highway 97
Wash., Yakima—Webb Tractor & Equipment Co., P. O. Box 78
Wyo., Cheyenne—Wortham Machinery Co., 517 W. 17th St.

J. I. CASE CO., 700 State St., Racine, Wis.

M-3 crawler mounted fork lifts, tractors and tractor loaders.

Branches

Calif., Oakland—1933 Peralta St.
Kan., Kansas City (serves Colorado)—2117-33 Broadway
Ore., Portland—1709 S.E. Third Ave.
Tex., Dallas (serves New Mexico)—4708 Harry Hines Blvd.

Representatives

Ariz., Phoenix—Superior Equipment Co., So. 19th Ave.

Calif., Anaheim—Orange County Tractor Co., 1520 Lincoln Ave.
Calif., Bakersfield— L. F. Freeborn, 1629 So. Union Ave.
Calif., Chino—Conleys Ranchers Supply, 13272 Roswell Ave.
Calif., El Cajon—Deakins-Lane Diesel Co., 1450 E. Main St.
Calif., Gardena—Western Equipment Co., 15930 So. Western Ave.
Calif., Oakland—Blakemore Equipment Co., 9025 G St.
Calif., Sacramento—Blakemore Equipment Co., 769 No. 16th St.
Calif., San Francisco—Contractors Machinery Co., 1401 Illinois St.
Calif., Santa Barbara—Milpas Rental Service, 6 No. Milpas St.
Calif., Santa Clara—Peterson Bros. Ind. Equipment, 575 Robert St.
Calif., Santa Rosa—Senger Farm Supply, 1470 Santa Rosa Ave.
Calif., South Gate—Gilmore & Wilcox, 4858 Firestone Blvd.
Calif., Sunnyvale—Redwine Tractor Co., 216 Bayshore
Colo., Denver—Constructors Equip. Co., 3611 Walnut St.
Colo., Fort Morgan—Morgan County Farm Supply Co., 109 Prospect St.
Colo., Greeley—Thomas Fay Implement Co., 821 Seventh St.
Colo., Trinidad—Barney's Garage & Implement Co., 705 No. Commercial
Idaho, Boise—G-K Machinery Co., 5200 Federal Way
N. Mex., Albuquerque—Construction Machinery Co., 2601 Second St., N.W.
Ore., Albany—Herrold & Jensen Impl. Co., P. O. Box 321
Ore., Eugene—Midwny Mach. & Supply Co., 3521 Franklin Blvd.
Ore., Lostine—M. Crow & Co., P. O. Box 8
Ore., Medford—Jerry Olson Mack Sales, P. O. Box 1443
Ore., Pendleton—Vaughn Co. Oregon, Ltd., 1400 S.W. Court
Ore., Portland—Willamette Equip. Co., 1106 S.E. Sixth Ave.
Ore., Salem—A. C. Haag & Co., P. O. Box 1777, Silverton Rd.
Utah, Salt Lake City—Machinery Center, Inc., 1201 So. Sixth W.
Wash., Burlington—Van Equipment Co., 103 So. Garl
Wash., Chehalis—Graham Impl. Co., 2394 Market St.
Wash., Colfax—Schneidmiller & Faries, Inc., E. 306 Third St.
Wash., Everett—Cascade Tractor Co., Inc., 1021 Highway 99
Wash., Montesano—Graham Impl. Co., Star Rt., Box 54 D
Wash., Seattle—Yukon Equipment, Inc., 327 Colman Bldg.
Wash., Seattle—Western Tractor & Equip., 745 Lucile St.
Wash., Yakima—Intervalley Equipment Co.

CELOTEX CORP., 120 So. LaSalle St., Chicago 3, Ill.

Fibre board inner packs.

Branches

Calif., Los Angeles—3625 W. Sixth St. DU 5-5131
Colo., Denver—602 Ry. Exchange Bldg. TA 5-8247

CENTURY GAS EQUIPMENT CO., 6855 E. Rosecrans Blvd., Paramount, Calif. NE 6-9211

Carburetors for L.P. Gas conversions.

Branch

Calif., North Hollywood—5521 Cleon Ave.

Representatives

Ariz., Phoenix—Fannin's Gas & Equipment Co., P. O. Box 1979
Calif., Bakersfield—L. O. McClure, 1131 33rd
Calif., Fresno—United Liquid Gas Co., Highway 99 and Maple Ave.
Calif., King City—Van Horn Butane Service, P. O. Box 35
Calif., Lodi—Gray's Butane, Inc., 106 W. Elm
Calif., Long Beach—R. S. Harmer, 2875 Cherry
Calif., Long Beach—Petrolane Gas Service, Inc., P. O. Drawer 1410
Calif., Los Angeles—Nicson Engineering Co., 4546 E. Washington St.
Calif., Ripon—A. B. Kamps, 336 W. Main St.
Calif., Sacramento—Cal-Gas Equipment Co., P. O. Box 52, Oak Park Station
Calif., San Jose—Weaver Gas Service, 1687 So. First St.
Calif., Upland—Suburban Gas Service Co., 60 E. Foothill Blvd.
Calif., Watsonville—Coast Gas Service, P. O. Box 174
Colo., Denver—Central Auto Electric Co., 12th Ave. and Lincoln St.
Colo., Holyoke—Butane-Propane Service, Inc.
Colo., Ordway—Ideal Gas Co.
N. Mex., Carlsbad—Carlsbad Gas & Appliances, P. O. Box 446
Wash., Yakima—Petrolane Gas Service, Inc., P. O. Box 862

CHAIN BELT CO., 4701 W. Greenfield Ave., Milwaukee, Wis.

Elevators, Conveyors, Accessories, Pumps.

Branches

Calif., Berkeley—2940 Seventh St. TH 3-6801
Calif., Los Angeles—7601 Telegraph Rd. RA 3-4751
Ore., Portland—2310 N.W. 24th Ave. CA 3-6121
Utah, Salt Lake City—10 Exchange Pl. EL 9-6679
Wash., Seattle—2425 Airport Way. MU 6750

Distributors

Ariz., Phoenix—Garrett Supply Co., P. O. Box 11038.
Calif., Bakersfield—Hopper Machine Works, 301 26th St. PO 1226
Calif., El Centro—W. H. Douthitt Steel & Supply Co., P. O. Box 183, Rt. 1.
Calif., Eureka—Eureka Boiler Works & Acme Foundry Co., Foot S St.
Calif., Fresno—Valley Foundry & Machine Works, 2510 So. East Ave.
Calif., Long Beach—Bay City Bearing Co., 709 W. 16th St.
Calif., Los Angeles—Bay City Bearing Co., 5275 Atlantic Blvd.
Calif., Los Angeles—Bearing Sales Co., 1950 So. Olive St.
Calif., Los Angeles—Garrett Supply Co., 3844 So. Santa Fe Ave.
Calif., Los Angeles—Republic Supply Co., 2600 So. Eastland Ave.
Calif., Oakland—Bay City Iron Works, Fourth and Washington St.
Calif., Pomona—Reliable Bearing & Supply Co., 777 E. Second St.
Calif., Redding—Gerlinger Steel & Supply Co., 1539 Placer
Calif., Riverside—Reliable Bearing & Supply Co., 3545 Main St.
Calif., Sacramento—Capital Machine & Welding Works, 83 No. 17th St.
Calif., San Bernardino—Reliable Bearing & Supply Co., 263 So. E St.
Calif., San Diego—Winn Supply Co., 256 Seventh Ave.
Calif., San Jose—Bearing & Equipment Co., 52-56 Locust St.
Calif., San Leandro—Republic Supply Co. of Calif., 1919 Williams St.
Calif., Santa Maria — The Bearing House, Pesen Rd.
Calif., Ventura—The Bearing House, 1252 No. Ventura Ave.
Colo., Denver—Union Supply Co., 5460 Colorado Blvd.
Idaho, Pocatello—Paul Roberts, 850 So. Main
Idaho, Twin Falls—Paul Roberts, 356 Fourth Ave. W.
Idaho, Wallace—Bitco, Inc., P. O. Box 929
Mont., Billings—Hall-Perry Machinery Co., 902 Central Ave.
Mont., Butte—Hall-Perry Machinery Co., 812 E. Iron St.
Mont., Great Falls—Hall-Perry Machinery Co., 1116 15th St. No.
Mont., Missoula—Hall-Perry Machinery Co., 127 E. Main St.
Nev., Reno—Pioneer Equipment Co. of Nevada, 525 Kietzke Lane. P. O. Box 78.
N. Mex., Albuquerque—Gorman Eng. Co. of New Mexico, 1330 No. 12th St.
New Mex., Carlsbad—Carlsbad Supply Co., 501 Park Dr.
N. Mex., Farmington—C & K Industrial Supply, 635 E. Main St.
Ore., Baker—Basche-Sage Harrware Co., 2101 Main St.
Ore., Coos Bay—A. B. Daly, 824 No. Front St.
Ore., Eugene—Harmer Mill & Logging Supply Co., 209 Polk St.
Ore., Klamath Falls—Klamath Machinery Co., 445 Spring St.
Ore., La Grande—Basche-Sage Hardware Co., 1409 Adams Ave.
Ore., Portland—Clyde Equipment Co., 1631 N.W. Thurman St.
Ore., Portland—Harshberger Equipment Co., 425 S.E. Ninth Ave.
Ore., Portland—H. W. Sharp Co., 71 S.W. Oak St.
Ore., Prineville—Prineville Machine & Supply Co., P. O. Box 85
Ore., Roseburg—Industrial Supply Co., 1928 Airport Rd.
Ore., Salem—Salem Steel & Supply Co., 180 Court St.
Utah, Helper—Carbon Transfer & Supply Co., P. O. Box 180
Utah, Ogden—Bearing Engineering Co. of Ogden, 1670 Washington Blvd.
Utah, Salt Lake City—Bearing Engineering & Sales Co., 756 So. Second W.
Wash., Aberdeen—Whitcher Machinery Co., 411 E. State St.
Wash., Everett—Everett Hardware Co., 2718 Broadway
Wash., Seattle—Washington Machinery Co., 7829 E. Marginal Way
Wash., Spokane—Bitco, Inc., E. 2928 Trent
Wash., Tacoma—W. S. Walter Co., 1722 Pacific
Wash., Walla Walla—Morrison Supply Co., 217 E. Alder St.

CHAINVEYOR CORP., 5618 E. Washington Blvd., Los Angeles, Calif.

Conveyors (automatic, chain link overhead, trolley, combination power and free trolley).

Representatives

Calif., Fresno—Elliott Mfg. Co., 1735 Ventura
Calif., Modesto—Barker Poultry Equipment Co., 518 So. Hwy. 99.
Calif., San Diego—General Industrial Supply, 1115 F St.
Calif., San Francisco—Ira G. Perin Co., 575 Howard St.
Colo., Denver—Hack Engineering Co., 124 Wazee St.
Ore., Portland—A. A. Schuler Co., 1128 S.W. Market St.
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl.
Wash., Seattle—Howard W. Wylie, 2615 Western Ave.

CHAMP CORP., 2500 Rosemead, El Monte, Calif. CU 3-6083

Trucks (gasoline fork).

Representatives

Ariz., Phoenix—Western Machinery Co., 820 No. 17th. AL 8-8531
Calif., Hayward—Western Lift Truck Service. 21031 Western Blvd. BR 6-3775, EL 1-5058
Calif., Oakland—Ricker Machinery Co., 302 4th St.
Calif., Stockton—Western Lift Truck Service, 348 W. Weber. HO 2-3847
Colo., Denver 4—Western Machinery Co., 2400 W. Seventh Ave. TA 5-7151
Colo., Grand Junction—Western Machinery Co., P. O. Box 1498
Idaho, Idaho Falls—Western Machinery Co., 590 W. 19th St.
Utah, Salt Lake City—Western Machinery Co., 2300 So. Main. Ingersol 6-8668
Wash., Spokane—Ferris Equip. Co., E. 3823 Trent Ave.

CHANTLAND MFG. CO., P. O. Box 386, Humboldt, Iowa

Conveyors (apron, bag and bale, belt, bucket, drag, flight, foundry, gravity roller, live roller, portable, screw, skate, slat, special, engineered in-plant systems).

Representatives

Calif., Los Angeles 32—Davis Material Handling Co., 4891 Huntington Dr. No.
Calif., Oakland—Mill Engineering & Machinery Co., 1023 Market St.
Colo., Denver—Edwin F. Deline Co., 224 W. Alameda Ave.
Colo., Denver—Hahn Equipment Co., 1795 Sheridan Blvd.
Colo., Denver 2—Plant Equipment Co., 1400 Market St.
Mont., Billings—Nash-Davis Machinery Co., 509 E. 27th St.
Ore., Portland—LaGrand Industrial Supply Co., 15 S.W. Arthur St.
Ore., Portland 10—Oregon Handling Equip. Co., 2949 N.W. St. Helens Rd.
Utah, Salt Lake City—L. J. Halverson Corrugating Works, 232 Lucy Ave.
Utah, Salt Lake City—Modern Equipment Co., 52 W. 2nd St.
Wash., Seattle—Materials Handling Equip. Co., 2963 1st Ave. So.
Wash., Spokane—Carter-Miller Mill Furnishing Co., 1324 Nash St.

CHESTER HOIST DIV., NATIONAL SCREW & MFG. CO., P. O. Box 376, Lisbon, Ohio

Hoists (chain, electric, hand, monorail, traveling), Trolleys.

Branches

Calif., Los Angeles—3423 So. Garfield Ave. RA 3-1381

Calif., San Francisco—1 Drumm St. DO 2-3082
Colo., Denver—1863 Wazee St. TA 5-0513
Ore., Portland—3604 S.W. Macadam. BE 2127

CHISHOLM-MOORE HOIST DIV., COLUMBUS McKINNON CHAIN CORP., Fremont Ave., Tonawanda, N. Y.

Cranes (hand power, jib, pillar, swing, bracket, hand power traveling overhead, I beam overhead), Hoists (chain, electric, hand, monorail, traveling), Trolleys.

See advertisement on page 71

Branches

Calif., San Francisco—320 Tenth St. UN 1-5255
Calif., San Marino—475 Huntington Dr. RYan 1-3346

CHRISTIAN, J. D., ENGINEERS, 480 Potrero Ave., San Francisco 10, Calif. HE 1-1300

Chains, Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag flight, foundry, gravity roller, live roller, overhead, pallet, pneumatic, portable, screw, skate, slat, trolley, vertical vibrating, special and other), Cranes (I beam overhead), Elevators (barrel, package, belt, bucket, continuous flow, other), Hoists (bucket, chain, drum, electric, skip), Loaders (portable, self-propelled), Pulleys, Rollers, Winches and Windlasses.

Representatives

Colo., Denver—Byer Rum Engineering Sales Co., 205 Denham Bldg. AC 2-2330
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd. CA 8-4196
Utah, Salt Lake City—L. J. Halverson Corr. Works, 232 Lucey Ave. Phone 6-9733

CLARK EQUIPMENT CO., INDUSTRIAL TRUCK DIV., 24th St., Battle Creek, Mich.

Tractors (diesel, electric warehouse, gasoline warehouse), Trucks (elevating or lifting, diesel fork, electric fork, gasoline fork, motorized hand, industrial, gasoline lift, hand-electric lift, pallet, sheet handling, electric tiering, paper roll, straddle).

Branch

Calif., San Francisco—235 Montgomery, Suite 1662, YU 2-0228

Representatives

Ariz., Phoenix—Naumann Lift Trucks, Inc., P. O. Box 6484. AL 8-8951
Calif., Eureka—Eureka Boiler Works, Foot of S St. HI 3-1681
Calif., Fresno—Gray Lift, Inc., 1905 Mary St. AM 8-6256
Calif., Los Angeles—Robert H. Braun Co., 5519 Jillson St. RA 3-6381
Calif., Oakland—Lifton, Inc., 6601 San Leandro St. SW 8-9100
Calif., Rialto—Robert H. Braun Co., P. O. Box 306, Colton. TR 7-0657
Calif., Sacramento—J. R. Rolfe Equipment Co., 3200 J St. GI 8-8248
Calif., San Diego—Robert H. Braun Co., 2208 Imperial. BE 3-0948
Calif., San Francisco—Lifton, Inc., 215 Embarcadero. EX 7-7929
Calif., San Jose—Warner-Yates Co., 1441 Terminal Ave. CY 7-4566
Colo., Denver—Francis & Sims, Inc., 2750 W. 17th Ave. AL 5-1781
Ore., Medford—Robert Dodd Co., 3360 No. Pacific Highway. SP 3-5023
Ore., Portland—Robert Dodd Co., 5210 S.W. Corbett. CA 8-8603
Utah, Salt Lake City—Foulger Equipment Co., 1361 So. Second West. HU 4-7625
Wash., Seattle—Preston Faller, 1921 Minor Ave. MA 4256
Wash., Spokane—Lifteo, Inc., E. 4324 Trent Ave. KE 5-1776
Wash., Tacoma—Preston Faller Co., So. 19th at Jefferson. BR 1573
Wash., Yakima—Preston Faller Co., 1011 So. 3rd St., Building B. GI 7-6668

CLARK EQUIPMENT CO., ROSS CARRIER DIV., Miller St., Benton Harbor, Mich.

Trucks (straddle).

Branch Office

Calif., San Francisco—706-707 Humbolt Bldg. YU 2-0228

Representatives

Ariz., Phoenix—Naumann Lift Trucks, Inc., 2308 So. 11th Ave., AL 8-8951
Calif., Eureka—Eureka Boiler Works, Foot of S St. HI 3-1681
Calif., Fresno—Gray Lift, Inc., 1905 Mary St., Phone 8-6256
Calif., Los Angeles—Robert H. Braun Co., 5519 Jillson St. RA 3-6381
Calif., Oakland—Lifton, Inc., 6601 San Leandro St. SW 8-9100
Calif., Sacramento—J. R. Rolfe Equipment Co., 3200 J St. HU 4-8248
Calif., San Jose—Warner-Yates Co., 1441 Terminal Ave. CY 7-4566
Colo., Denver—Francis & Sims, Inc., 2855 W. Eighth Ave. AC 2-4041
Ore., Portland—Robert Dodd Co., 238 N.E. Oregon St. BE 4-8491
Utah, Salt Lake City—Foulger Equipment Co., 1361 So. Second W. HU 4-7625
Wash., Seattle—Preston Faller Co., 1921 Minor St. MA 4256

CLEVELAND TRAMRAIL DIV., CLEVELAND CRANE & ENGINEERING CO., Wickliffe, Ohio

Conveyors (automatic, foundry, overhead, trolley), Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, locomotive overhead, monorail overhead) Grabs, Hoists (air, chain, crane, drum, electric, hydraulic, monorail, traveling), Scales (conveyor, monorail), Tractors (monorail), Trolleys.

Representatives

Calif., Los Angeles—Cleveland Tramrail Calif. Co., 6435 Corvette St. RA 3-5205
Calif., San Francisco — Cleveland Tramrail Calif Co., 870 Market St. EX 7-0737

See advertisement on pages 50 & 51

Colo., Denver—Cleveland Tramrail Denver Co., 1700 15th Ave. MA 3-3221
Utah, Salt Lake City—Cleveland Tramrail Utah Division, 334 W. 17th So. St. EL 5-8751
Wash., Seattle—Nelson J. Leonard, 5764 28th Ave. N.E. KE 6828

CLEVELAND WORM & GEAR CO., 3255 E. 80th St., Cleveland 4, Ohio.

Drives (variable speed), Gears (worm), Reducers, speed (worm gear).

Representatives

Calif., Los Angeles—The Mark-Costello Co., 6511 Whittier Blvd. RA 3-4696
Calif., San Francisco—F. Somers Peterson Co., 157 13th St. MA 1-2255
Colo., Denver—J. M. Warner Co., 600 W. 48th Ave. AC 2-2685
Ore., Portland—Bearing Sales & Service, Inc., 1645 N.W. Hoyt St. CA 3-6301
Utah, Salt Lake City—Sales Engineering Co., Inc., 526 W. 8th So. St. EL 5-1162
Wash., Seattle—Bearing Sales & Service, Inc., 2908 Sixth Ave. So. MU 0331

CLIPPER BELT LACER CO., 974 Front Ave., N. W., Grand Rapids 2, Mich.

Belt fasteners, Belt lacings.

Branch

Calif., Oakland—2511 Broadway

Representatives

(Industrial distributors on non-exclusive basis)

CLYDE IRON WORKS, Duluth 1, Minn.

Cranes (gantry), Hoists (bucket, crane, derrick, drum, electric, gasoline, portable), Winches and Windlasses.

Representatives

Ariz., Phoenix—State Tractor & Equipment Co., 407 So. 17th Ave. AL 2-1731
Calif., Los Angeles—Harron, Rickard & McCone Co., 3850 Santa Fe Ave. LO 5-8361
Calif., San Francisco—Coast Equipment Co., 444 Eighth St. MA 1-5740
Colo., Denver—Mine & Smelter Supply, 3800 Race St. KE 3111
Idaho, Boise—Intermountain Equipment Co., Broadway at Myrtle. Phone 3-6441
Mont., Billings—Western Construction Equipment Co., 505 No. 24th St. Phone 9-5501
Mont., Great Falls—Western Const. & Equip. Co., 2322 River Dr. GL 3-1405
N. Mex., Albuquerque—Harry Cornelius Co., 1510 No. 2nd St. Phone 3-1776
Ore., Portland—Clyde Equipment Co., 1631 N.W. Thurman St. BR 5561
Utah, Salt Lake City—Mine & Smelter Supply, 121 W. Second So. St.
Wash., Seattle—Clyde Equipment Co., 3410 First Ave. So. MA 1235.
Wash., Spokane — Intermountain Equipment Co., E. 611 Sprague Ave. TE 2521

COFFING HOIST DIV., see **DUFF-NORTON CO., COFFING HOIST DIV.**

COLBY STEEL & MFG., INC., 65 Horton St., Seattle 4, Wash.

Cranes (gantry, electric and electric traveling overhead, whirley, hammerhead), Elevators (marine, freight), Hoists (electric, gasoline), Ramps, Trucks (elevating or lifting, electric fork, industrial, power-driven lift), Unloaders (grab bucket).

COLES CRANES, INC., P. O. Box 942, Joliet, Ill.

Cranes (yard, truck, tractor, rail mounted).

Representatives

Ariz, Phoenix—Naumann Lift Trucks, Inc., 2308 So. 11th Ave. AL 8-8951
Calif., Fresno—Gray Lift, Inc., 1905 Mary St. AM 8-6256
Calif., Los Angeles—Robert H. Braun Co., 5519 Jillson St. RA 3-6381
Calif., Oakland—Robert H. Griffin Co., 600 16th St. GL 1-3234
Calif., San Diego—Robert H. Braun Co., 2208 Imperial. BE 3-0948
Colo., Denver—Woodriff Brothers, 617 Cooper Bldg. TA 2913
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. Phone 3-9074
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. MU 3388

COLORADO FUEL & IRON CORP., P. O. Box 1920, Denver 1, Colo.

Metal processing belts, Folding bin pallets, slings (wire rope), Wire rope.

Branches

Ariz., Phoenix—305 E. Buchanan. AL 8-5751
Calif., Los Angeles—2444 Saybrook Ave. RA 3-4691
Calif., San Francisco—357 Russ Bldg. SU 1-6377
Calif., San Leandro—425 Hester St. NE 6-1959
Colo., Grand Junction—P. O. Box 451. CH 2-5203
Colo., Pueblo—P. O. Box 316. LI 3-2470
Idaho, Boise—P. O. Box 1552. Phone 3-6461
Mont., Billings—501 N. 27th St. Phone 6-6520
Mont., Butte—401 Metals Bank Bldg. Phone 5359
N. Mex., Albuquerque—2824 Central Ave., S.E. Phone 3-5526
Ore., Portland—1350 N.W. 31st Ave. CA 8-7311
Utah, Salt Lake City—212 W. 13th So. St. Phone 7-5438
Wash., Seattle—3434 Second Ave. So. MA 4-4881
Wash., Spokane—4320 E. Trent Ave. KE 5-2071

COLSON CORP., Airport Rd., Jonesboro, Ark.

Casters, Conveyors (automatic belt, continuous flow, gravity roller, portable, skate), Hoists (hydraulic, portable), Jacks (lift), Pallets, Racks (storage), Skids, Tables (elevating), Trucks (bag, barrel, drum, box type, die handling, dolly, elevating or lifting, hand, hand lift, hand electric lift, hand-mechanical lift, pallet, skid handling,), Wheels (conveyor, general industrial, hand truck, rubber tired).

Branch

Ore., Portland—614 N.W. Sixth Ave. CA 7-5672

Representatives

Calif., Los Angeles—Colson Equipment & Supply Co., 1317 Willow St. TR 5743
Wash., Seattle—R. H. Brown Co., 502 First Ave. So. SE 0707

COLSON EQUIPMENT & SUPPLY CO., 1317 Willow St., Los Angeles 13, Calif. TR 5743

Casters, Wheels, Hand trucks, Industrial trailers, Platform trucks, Conveyors, Portable elevators.

See advertisement on page 70

Branch Offices

Calif., Oakland—350 10th St. TE 2-3556
Calif., San Francisco—20 Beale St. GA 1-0280

COLUMBIA-GENEVA STEEL DIV., UNITED STATES STEEL CORP., 120 Montgomery St., San Francisco 6, Calif.

Steel products for materials handling equipment and packaging.

Branches

Calif., Los Angeles—2087 E. Slauson Ave., LU 5-1171

Ore., Portland—2345 N.W. Nicolai. CA 2-9534
Utah, Salt Lake City—Walker Bank Bldg. DA 2-0491
Wash., Seattle—7th & Olive Way, MA 1972

COLUMBUS MCKINNON CHAIN CORP., Tonawanda, N. Y.

Chains and slings (Herc-Alloy sling chains, sling hooks, grab hooks and master links, Hammerlok coupling links), Chains (Inswell high test, proof coil, BBB chain.)

Branches

Calif., Los Angeles—4802 Loma Vista Ave. LU 3-7312
Calif., San Francisco—605 Third St. GA 1-6444

CONCO ENGINEERING WORKS, Mendota, Ill.

Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I-beam overhead), Hoists (chain, crane, electric, hand, monorail, traveling), Trolleys.

Representatives

Ariz., Phoenix—E. D. Flournoy Co., P. O. Box 3945
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St.
Ore., Portland—F. E. Bennett Co., 426 N. W. Sixth Ave.
N. Mex., Albuquerque—E. D. Flournoy Co., 217 So. Sixth St.
Utah, Salt Lake City—Riter Engineering Co., Kearns Bldg.

CONTINENTAL CAN CO., INC., 100 E. 42nd St., New York 17, N. Y.

Shipping Boxes (corrugated and fibre and fibre board).

Representatives

Representatives in all principal cities in the West.

CONVEYOR CO., MOBILE SWEEPER DIV., 3260 E. Slauson Ave., Los Angeles 58, Calif. LU 2-8411

Belting (chain link, composition, conveyor, elevator, wire), Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, drag, flight, foundry, gravity roller, screw, skate, vibrating), Elevators (belt, bucket, continuous flow), Pulleys (conveyor), Scales (automatic, conveyor), Wheels (conveyor).

Representatives

Ariz., Phoenix—O. S. Stapley Co., 723 Grand Ave. Phone 3-2121
Calif., San Diego — Southern Equipment and Supply Co., 2025 E. Harbor Drive. BE 2-6123
Calif., San Francisco—Tri-Counties Equipment and Implement Co., 575 Berry St. MA 1-3121
Calif., Ukiah—Fullerton Equipment Co., 265 E. Clay St. HO 2-4524
Colo., Denver—Johnson-Tudor Co., 6198 Colorado Blvd. AT 8-1513
Idaho, Boise—Starline Equipment Co., 503 S. 16th St. Phone 4-3321
Ore., Portland—Contractors Equipment Co., P. O. Box 2191. BE 5-4131
Utah, Salt Lake City—Archer Tractor, 1118 So. Main St. EM 3-3821
Wash., Seattle—Sahlberg Equipment Co., Inc., 5940 Fourth Ave. So. MO 6060

CONVOY, INC., 3424 Navarre Rd., S. W., Canton 6, Ohio

Baskets (fibre), Bins, Boxes (tote).

Representatives

Calif., Los Angeles—H. O. Bishop, 1717 Industrial. VA 5807
Calif., Oakland—E. C. Buehrer, 253 Fourth St. TE 6-2082

COPPERLOY CORPORATION, 4103 Brookpark Rd., Cleveland 29, Ohio

Dock boards (magnesium), Dollies (pallet), Platforms (loading), Ramps (hose and yard).

Representatives

Calif., Berkeley—West Coast Engine & Equip. Co., 1077 Eastshore Hwy.
Calif., San Francisco—P. F. O'Donnell Co., 2298 Jerrold Ave.
Ore., Portland—Oregon Handling Equip. Co., 2949 N.W. St. Helens Rd.
Wash., Seattle—Cascade Handling Equip. Co., 410 Battery St.

J. C. CORRIGAN CO., INC., 41 Norwood St., Boston 22, Mass.

Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, pallet, portable, screw, slat, special and other), Elevators (belt, bucket), Hoppers, Tables (conveying).

Representatives

Calif., Los Angeles—Alden Equipment Co., P. O. Box 47666, Wagner Sta. FA 1-0360
Colo., Denver—E. C. Horne Machinery Co., 1726 Champa St. TA 7015

COST REDUCTION EQUIPMENT CO., 5200 Chakemco St., South Gate, Calif. LO 7-2487

Conveyors (belt), Hoists (skip), Trailers (factory and warehouse) Special handling and production equipment.

CRANE HOIST ENGINEERING CORP., 6515 Salt Lake Ave., Bell, Calif.

Overhead traveling M. H. equipment, including cranes, monorails, jibs, gantries and hoists.

Branch

Calif., San Leandro—426 Hester St. LO 2-3075

Representative

Wash., Seattle—Burtch-Cole Co., 3601 Greenwood. MU 0880

CRANEVEYOR CORP., 1240 S. Boyle Ave., Los Angeles 23, Calif.

Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric overhead, electric traveling, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Hoists (air, chain, crane, electric, hand, monorail, portable, traveling, other), Trolleys, Electric cable reels.

Representatives

Ariz., Phoenix — Pratt-Gilbert Hardware Co., P. O. Box 2230. AL 8-6751
Colo., Denver—Mine and Smelter Supply, P. O. Box 5270, Terminal Annex. KE 4-3111
Utah, Salt Lake City—Mine and Smelter Supply, 121 W. So. Second. Phone 3-2791

CRESCENT BELT FASTENER CO., 381 Fourth Ave., New York 16, N. Y.

Belt fasteners and belt lacings.

Representatives

(Distributors in all major Western cities).

CROWN ZELLERBACH CORP., 343 Sansome St., San Francisco 19, Calif.

Bags (multi-wall, shipping), Boxes for shipping, Packaging tape.

Branches

Calif., Los Angeles—3416 So. Garfield Ave. RA 3-6231
Calif., San Francisco—343 Sansome St. YU 6-0822
Ore., Portland—1100 Public Service Bldg. CA 7-6481
Utah, Salt Lake City—338 First So. DA 2-0581
Colo., Denver—240 Josephine St. FL 5-3551
Wash., Seattle—719 White Bldg. MA 3940

CROWN-ZELLERBACH CORP., see also **GAYLORD CONTAINER DIV. OF CROWN-ZELLERBACH CORP.**

CULLEN-FRIESTEDT CO., 1300 So. Kilbourn Ave., Chicago 23, Ill.

Buckets (clamshell), Cranes (locomotive), Grabs (rail tongs, sheet steel lifters, coil steel lifters), Grapples, Welding positioners.

Representatives

Calif., Los Angeles—J. E. Simkins, 1748 W. 54th St. AX 1-2022
Calif., San Francisco 11—G. Proffitt, Ferry Bldg. DO 2-1464
Wash., Seattle—H. A. Cheever, 2739 First Ave. So. EL 1078

CURTIS MFG. CO., 1905 Kienlen Ave., St. Louis 20, Mo.

Hoists (air, hydraulic), Air compressors.

Representatives

Calif., Berkeley—Harry Koses, 3033 San Pablo Ave. AS 3-6726
Calif., Los Angeles—L. L. Meikle, 2844 So. Grand Ave. RI 8-0151
Colo., Denver—E. J. Witulski, 1270 So. Josephine PE 6775
Ore., Portland—L. L. Meikle, 1018 S.E. Eighth Ave. FI 7469

CYCLONE FENCE DEPT., AMERICAN STEEL & WIRE DIV., UNITED STATES STEEL CORP., P. O. Box 260, Waukegan, Ill.

Baskets (wire), Belting (chain link, flat wire, parallel wire, conveyor, endless), Sprockets (conveyor belt).

Branches

Ariz., Phoenix—4814 No. Central Ave. AM 6-1694
Ariz., Tucson—426 E. Seventh St. MA 3-4617
Calif., Bakersfield—1500 E. California Ave. FA 3-9262
Calif., Fresno—850 R St. AD 7-8054
Calif., Glendale — 820 Thompson Ave. CH 5-2635
Calif., Oakland—954 60th St. OL 2-2060
Calif., Riverside—3485 Orange St. OV 3-4717
Calif., Sacramento—1331 T St. GI 2-7261
Calif., San Diego—2144 El Cajon Blvd. CY 8-8243
Calif., San Francisco—440 Bayshore Blvd. VA 4-1575
Calif., San Jose—460 Park Ave. CY 5-3310
Ore., Portland—400 N. E. 11th Ave. BE 2-8105
Utah, Salt Lake City—3062 Main St. HU 5-6321
Wash., Seattle—1150 Fairview Ave. No. MA 8164
Wash., Spokane—So. 125 Stevens. MA 4-0421
Wash., Tacoma—911½ Pacific Ave. MA 7-4551

CYCLOPS IRON WORKS, 837 Folsom St., San Francisco 7, Calif., DO 2-6100

Cranes (gantry, hand power, jib, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, locomotive overhead, monorail overhead), Grapples, Hoists (crane, electric), Trolleys.

DARNELL CORP., 12000 Woodruff Ave., Downey, Calif.

Casters, Wheels (general industrial, hand truck, rubber tired, trailer).

Branch

Calif., San Francisco—681 Market St. SU 1-0413

Representatives

Ariz., Phoenix—Garrett Supply Co., 2950 W. Thomas Rd. AL 8-5701
Calif., Anaheim—Eureka Bearing & Supply Co., 502 So. Los Angeles St. KE 5-2888
Calif., Fresno—Valley Foundry & Machine, 2516 So. East Ave. AD 3-6135
Calif., Long Beach — American Wholesale Hardware, 1500 W. Anaheim St. Phone 612-61
Calif., Long Beach—Jones Hardware Co., 1501 Santa Fe. HE 2-8435
Calif., Los Angeles—Andrews Hardware & Metal, 334 So. Main St. MU 6111
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Calif., Los Angeles—Colson Equipment & Supply Co., 1317 Willow St. TR 5743
Calif., Los Angeles—Republic Supply Co., 2600 So. Eastland. RA 3-2511

See advertisement on page 154

Calif., Los Angeles—Union Hardware & Metal Co., 5555 Ferguson Dr. RA 3-2411
Calif., Los Angeles—Warren & Bailey Co., 3522 So. Garfield Ave. RA 8-7181
Calif., Los Angeles—Yaeger & Sons, 1512 E. Olympic. TR 3876
Calif., Sacramento—Capital Machine & Welding Works. 83 No. 17 St. GI 3-2556
Calif., San Bernardino—Reliable Bearing & Supply Co., 263 So. E St. TU 8-6565
Calif., San Diego—Mission Pipe & Supply Co., 200 Ninth St. BE 3-6633
Calif., San Francisco—Elder & Co., 333 Seventh St. UN 1-5480
Calif. South Gate—Justice Co., 4680 Firestone Blvd. LO 4-1855
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5296
Mont., Billings—Bearings Supply Co., 2nd Ave. at 12th St. No.
Nev., Las Vegas—Vegas Material Co., 1025 So. Main St. DU 4-2025
N. Mex., Albuquerque—Safway Steel Scaffold Co., 2702 Vista Larga Ave. N.E. Phone 6-1713
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave. CA 8-2321

Utah, Salt Lake City—Webb Co., 533 So. 2nd W. St. EL 9-2946
Wash., Seattle—J. W. Ralston Co., 1401 W. Garfield. AL 8383
Wash., Spokane—Standard Cycle & Supply Co., 1811 E. Sprague Ave. KE 5-2014

DAY CO., 810 Third Ave. N.E., Minneapolis 13, Minn.
Bins, Conveyors (pneumatic), Hoppers.
Representatives
Calif., Los Angeles—Milton J. Adamson, 714 W. Olympic Blvd. RI 8-5345
Calif., Oakland—John H. Schmidt Co., 190 MacArthur Blvd. TE 2-2676
Colo., Denver—E. N. Murray Co., 320 Denver Club Blvd. AL 5-0533
Idaho, Twin Falls—C. K. Brown & Assoc., Inc., 401 Shoshone St. So. RE 3-2320
Wash., Tacoma—Larson & Baardson, Inc., 11703 Mountbrook Lane. JU 8-0344

DAYBROOK HYDRAULIC DIV., YOUNG SPRING & WIRE CORP., Bowling Green, Ohio
Cranes (truck mounted), Hoists (hydraulic), Loaders and Unloaders (tailgate).
Representatives
Ariz., Phoenix—Western Truck Equip. Co., 3101 No. 29th Ave.
Calif., Fresno—Utility Trailer Sales Co., So. Highway 99 at Orange Ave.
Calif., Los Angeles—Western Body & Hoist Co., 5729 Maywood Ave.
Calif., Maywood—Standard Carriage Works, Inc., 4120 E. Bandini Blvd.
Calif., San Francisco—Transport Supply Co., 185 King St.
Colo., Denver—Timpte Bros., E. 40th at York St.
Idaho, Boise—Carl R. Burt Equip. Co., P. O. Box 1191
Mont., Joplin—McClellan's, Inc.
N. Mex., Albuquerque—Timpte Bros., Inc., 4300 Second N.W.
Ore., Portland—Air Mac, Inc., 1111 S.E. Grand
Ore., Portland—Utility Trailer & Equip. Co., 4771 S.E. 17th Ave.
Utah, Salt Lake City—Foulger Equip. Co., 1361 So. Second W.
Wash., Seattle—Air Mac, Inc., 3838 Fourth Ave.
Wash., Seattle—Transport Trailer & Equip., 3400 Sixth Ave. So.
Wash., Spokane—Spokane Machinery Co., E. 3626 Trent Ave.

DEARBORN FABRICATING & ENGINEERING CO., 19440 Glendale Ave., Detroit 23, Mich.
Overhead cable-link conveyors.
Representative
Calif., Huntington Park—Western Material Handling Co. LU 2-2616

DEERE, JOHN, INDUSTRIAL DIV., 330 River Dr., Moline, Ill.
Loaders (portable, self-propelled), Tractors (gasoline warehouse, gasoline crawler), Trailers (tractor, rubber tired), Fork-lift.
Branches
Calif., San Francisco—651 Brannan St. SU 1-2929
Ore., Portland—215 S.E. Morrison St. BE 4-5431
Utah, Salt Lake City—1841 W. 1700 So. HU 4-4427

DEGEN, L. P., BELTING CO., 260 Mission St., San Francisco 5, Calif. EX 2-3820
Baskets (fibre, leather, asbestos, rubber), Belting, conveyor, elevator, endless, other), Belt fasteners and belt lacings, Conveyors (belt), Elevators (belt), Jacks (hydraulic), Slings (belt, canvas), Trucks, (hydraulic lift).
Representatives
Calif., Los Angeles—Don Smith Co., 3219 So. Figueroa. PR 0268
Calif., San Mateo—Wallace Degen, 389 Glendale Rd. DI 3-7655

DELUXE METAL FURNITURE CO., 500 Struthers St., Warren, Pa.
Boltless steel shelving, storage wardrobe and combination cabinets, Verti-File open shelf filing equipment.
Branch
Calif., Los Angeles—1834 So. Figueroa St. RI 7-9366
Representatives
Ariz., Phoenix—Thunderbird Sales Corp., 2255 W. McDowell Rd. AL 4-8876
Calif., San Francisco—Enterprise Commercial, 20 Pacific Ave. EX 7-0618
Calif., South Pasadena—Blair Martin Co., Inc., 905 Mission St. RY 1-2861
Colo., Denver—Horblit & Co., 2329 Champa St. AM 6-2691
Utah, Salt Lake City—Pembroke's 24 E. Broadway. Phone 4-8424
Wash., Seattle 4—Timmerman Eqpt. Co., 919-21 Western Ave. MU 6332

DEMING CO., THE, Salem, Ohio
Pumps.
Representatives
Calif., Los Angeles—Simonds Pump Co., 455 E. Fourth St.
Calif., San Francisco—Simonds Machinery Co., 816 Folsom St.
Ore., Portland—Polsom Implement Co., 205 S.E. Hawthorne Blvd.
Wash., Seattle—Polson Implement Co., 631 Western Ave.
Wash., Spokane—Polson Implement Co., E. 210 Montgomery St.

DEMPSTER BROTHERS, INC., Springdale Ave. & Southern Railroad, Knoxville, Tenn.
System consisting of truck-mounted unit handling many types and sizes of containers.
Branch
Calif., Los Altos—1468 Richardson Ave. YO 8-5111
Representatives
Ariz., Phoenix—Mike Murphy, 8211 No. Central. WI 3-5853
Calif., San Mateo—Jack Jank, 3836 Colegrove St. FI 5-5217
Calif. San Francisco—F. W. D. Pacific Co., 850 Harrison St. GA 1-4971
Colo., Denver—Elder Trailer & Body, Inc., 4830 Race St. AM 6-1781
Utah, Salt Lake City—Material Handling Engineers, Inc., 334 W 17th So. St. Phone 5-8751
Wash., Seattle—Lars Carlson, 3004 W. Laurelhurst Dr. PL 6559

DERBY SEALERS, INC., Derby, Conn.
Packaging machinery.
Representatives
Ariz., Phoenix—Frank A. Biederman Assoc., 1033 E. San Juan. CR 4-0775
Calif., Los Angeles—Los Angeles Supply Co., 2261 So. Atlantic Blvd. AN 9-0451
Calif., Los Angeles—Western-Sinclair, Inc., 1234 Factory Pl. MI 9693, MA 9-2619
Calif., San Francisco—Diagraph-Bradley Distributing Co., 340 Fourth St. SU 1-4928, SU 1-5536
Colo., Denver—Denver Tape Printing Co., 1216 Galapago. AL 5-7341

DETROIT HOIST & MACHINE CO., 8204 Morrow St., Detroit 4, Mich.
Cranes (air, electric), Hoists (electric, air).
Representatives
Calif., Berkeley—Walter Weyman Co. TH 5-3900
Calif., Los Angeles—Hoist Specialties, Inc., 429 So. Western Ave. DU 8-2417

W. C. DILLON & CO., INC., 14620 Keswick St., Van Nuys, Calif.
Dillon weight indicator, Dillon Dyna-Switch.
Representatives
Ore., Portland—Jack Ogle & Co., 2505 S.E. 11th Ave. BE 5-4080
Wash., Seattle—Jack Ogle & Co., 105 Orcas St. MO 2030

DIAGRAPH-BRADLEY INDUSTRIES, INC., P. O. Box 269, Herrin, Ill.
Shipping room supplies (marking, labeling and stitching equipment, etc.).
Representatives
Ariz., Tucson—L. J. Clarke & Co., 2625 No. 1st Ave. MA 4-6233
Calif., Los Angeles—Shipping Room Supply Co., 1547 Estudillo Ave. AN 1-2194
Calif., San Francisco—Diagraph-Bradley Distributing Co., 340 Fourth St. SU 1-5536
Colo., Denver 2—Materials Handling Equipment Co., 1795 Sheridan Blvd. BE 7-0433
Ore., Portland 9—John W. Negus Co., 3005 N.E. Sandy Blvd. BE 4-8515
Utah, Ogden—The Geo. W. Goddard Co., 24th St. and Wall Ave. Phone 2-7546
Wash., Seattle—Secord Sales Co., 95 Connecticut St. MA 0737

DIAMOND CHAIN CO., 402 Kentucky Ave., Indianapolis 7, Ind.
Chains (roller, conveyor), Sprockets, Couplings (shaft, flexible).

See advertisement on page 12

Branches
Calif., Los Angeles—900 Santa Fe Ave. VA 1723
Calif., Menlo Park—595 Santa Cruz Ave. DA 3-4940
Representatives
Ariz., Phoenix—Semon Bearing & Supply Co., 325 No. Third Ave.
Ariz., Tucson—Tucson Bearing Co., Inc., 1110 So. Park Ave.
Calif., Arcata—Reliable Hardware Co., Inc., 11th and "M" Sts.
Calif., Bakersfield—Power Transmission Equipment Co., 109 23rd
Calif., Fresno—Pacific Mill & Mine Supply Co., Inc., 530 Van Ness Ave.
Calif., Los Angeles—Degen-Fiege Co., 4559 E. Sheila St.
Calif., Los Angeles—Power Transmission Equipment Co., 4501 Firestone Blvd.
Calif., Sacramento—Western Industrial Supply Co., 905 "G" St.
Calif., San Francisco—Horsford Bros., 944 Folsom St.
Calif., San Francisco—Monarch Corp. Supply Div., 55 New Montgomery St.
Calif., San Leandro—Monarch Corp. Supply Div., 2075 Williams St.
Calif., Santa Clara—Monarch Corp. Supply Div., 2455 The Alameda
Calif., Stockton—Hickinbothan Bros. Ltd., 536 So. Aurora St.
Colo., Denver—Colorado Bearing Co., 1618 Wazee St.
Idaho, Boise—Western Conveyor Co., 2801 Warm Springs Ave.
N. Mex., Albuquerque—The Harry Cornelius Co., 1510 Second St. N.W.
Ore., Eugene—Bearing Sales & Service, Inc., 225 Seventh Ave., W.
Ore., Portland—Bearing Sales & Service, Inc., 1645 N.W. Hoyt St.
Ore., Portland—Woodbury & Co., Swan Island, 5851 No. Lagoon
Ore., Roseburg—Bearing Sales & Service, Inc., 729 S.E. Stephens St.
Utah, Salt Lake City—Utah Sprocket & Machinery Co., Inc., 717 So. Fourth, W.
Wash., Aberdeen—Mill & Logging Supply Co., 313 So. "H" St.
Wash., Everett—Washington Belting & Rubber Co., 2923 Grand Ave.
Wash., Longview—Bearing Sales & Service, Inc., 743 Commerce Ave.
Wash., Seattle—Washington Belting & Rubber Co., 2763 First Ave., So.
Wash., Tacoma—Washington Belting & Rubber Co., 672 E. 11th St.

R & J DICK CO., P. O. Box 388, Passaic, N. J.
Belting (chain link, composition, conveyor, fabric, canvas, elevator, endless), Belt fasteners and belt lacings, Chains, Pulleys (conveyor, other) Slings (belt, canvas).
Branches
Calif., Maywood—5276 Atlantic Blvd. LO 8-4014

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Calif., San Francisco—510 Bryant St. SU 1-1341
Ore., Portland—716 N.E. 3rd Ave. BE 4-9707
Wash., Seattle—307 Maritime Bldg. MU 2-1922
Representatives
(Contact any of the branches for name of nearest distributor.)

DICO CO., 200 S. W. 16th St., Des Moines 5, Ia.
Brakes, Tires, Trucks (bag, barrel, drum, box type, hand), Wheelbarrows, Wheels (general industrial, hand truck, trailer).
Representatives
Calif., San Francisco—W. W. Wohlforth Co., 420 Market St. YU 2-2616
Utah, Salt Lake City—J. Lester Barlow, 509 Beason Bldg. Phone 3-5456

DINGS MAGNETIC SEPARATOR CO., 4740 W. Electric Ave., Milwaukee 46, Wis.
Magnetic material handling devices (magnetic conveyors, magnetic separators).

Representatives
Calif., Los Angeles—A. W. Nash Co., 2112 So. Atlantic Blvd. AN 9-7304
Calif., San Francisco—Samson Sales Co., 420 Market St. EX 2-7070
Ore., Portland—Joseph F. Taraba Co., 1824 S.E. 50th St. BE 4-6491

DIVINE BROTHERS CO., 200 Seward Ave., Utica 1, N. Y.
Casters, Wheels (general industrial, hand truck, rubber tired, trailer).
Representatives
Calif., Los Angeles—Utilities Supply Co., 2852 Supply St. PR 3178
Colo., Denver—Materials Handling Equipment Co., 1745 Blake St. KE 4-5500
Ore., Portland—Oregon Handling Equipment, 2949 St. Helens Rd. AT 5792
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second So. St. Phone 9-2171
Wash., Seattle—J. W. Ralston Co., 1401 W. Garfield. AL 8382

DODGE MFG. CORP., So. Union St., Mishawaka, Ind.
Pulleys (conveyor, other), Speed reducers, Pillow block bearings, V-belt drives, Chain drives, Fluid drives, Couplings.
Branch
Calif., San Francisco—55 New Montgomery St., DO 2-8434
Representatives
Calif., Rivera—R. C. Kingsbury, 7744 Industry Ave. RA 3-8621
Calif., San Francisco—L. O. Carroll, 55 New Montgomery St. DO 2-8434
Colo., Denver—D. M. Leckey, 1483 So. Eudora, SK 6-5347
Ore., Oswego—M. M. Studebaker, 1011 Bayberry Rd. NE 6-5081

DOWNS CRANE & HOIST CO., 540 W. Vernon Ave., Los Angeles 37
Cranes (gantry, hand power, jib, pillar, swing bracket, double beam overhead, electric traveling overhead, hand power traveling overhead, I-beam overhead), Grabs, Grapples, Hoists (crane, derrick, drum, electric, skip, traveling, other), Slings (belt, canvas, chain, rope, wire rope, other), Tongs, Trolleys, Crane wheels, Winches and Windlasses.

DROTT MFG. CO., 3126 So. 27th St., Milwaukee 15, Wis.
Grapples, Loaders and Unloaders, Pallet Loaders.
Branch Offices
Calif., Hayward—1775 St. Andrew St. DE 2-3767
Wash., Seattle—2564—38th Ave., W. AL 0742 (Distributors in all major Western cities)

DUCT-O-WIRE CO., 6520 Bissell St., Bell, Calif.
Electric crane and monorail conductor systems
Branches
Calif., Garden Grove—9593 Garden Grove Blvd. JE 7-4450
Calif., San Francisco—420 Market St. YU 2-3483
Representatives
Calif., Bell (Los Angeles)—Crane Hoist Engineering Corp., 6515 Salt Lake Ave. LU 2-7121
Calif. San Leandro—Crane Hoist Engineering Corp., 426 Hester St. LO 2-3075

DUFF-NORTON CO., COFFING HOIST DIV., 800 Walter St., Danville, Ill.
Hoists (chain, electric, hand, portable), Trolleys.
Warehouse (Duff-Norton Co.)
Calif., San Francisco—1016 Howard St. HE 1-4755
Representatives
Calif., Belmont—R. A. Ratcliff, 1300 Sunnyslope Ave. LY 3-6070
Colo., Denver—F. R. Eisner, 842 So. York St. SP 7-5131
N. Mex., Albuquerque—J. G. Austin, 1505 Las Lomas, N.E. Phone 5-9494
(Distributors in all major cities)

EAGLE IRON WORKS, 203 Holcomb St., Des Moines, Iowa.
Drop balls (Nilhard, semi-steel), Gravel (washing), Sand (classification, washing), Vibrators, Water-Scalpers (sand).
Representatives
Ariz., Phoenix—Arizona Cedar Rapids Co., 1726 W. Jackson St.
Calif., Los Angeles—Brown-Bevis-Industrial Equipment Co., 6550 E. Washington Blvd.
Calif., Oakland—Cool Brothers Truck & Equipment Co., 416 E. 8th St.
Colo., Denver—H. W. Moore Equipment Co., 5990 Colorado Blvd.
Idaho, Boise—Intermountain Equipment Co., Broadway & Myrtle Sts.
Mont., Billings—Western Construction Equipment Co., 505 No. 24th St.
Nev., Reno—Sierra Machinery Co., 307 Morrill Ave.
N. Mex., Albuquerque—N. C. Ribble Co., 1304 Fourth St. N.W.
Ore., Portland—Balzer Machinery Co., 2136 S.E. 8th Ave.
Utah, Salt Lake City—Lang Construction Equipment Co., First So. and Second W.
Wash., Seattle—Sahlbert Equipment, Inc., 5950 Fourth Ave. So.
Wash, Spokane—Intermountain Equipment Co., E. 611 Sprague Ave.
Wyo., Cheyenne—Keremi Tractor & Equipment Co., 902 W 22nd St.

EASTMAN TAG & LABEL CO., 3451 Collins Ave., Richmond 4, Calif.
Tags (shipping, point-of-sale, address labels).
Branches
Calif., Los Angeles—720 E. 59th St. AD 3-8121
Calif., San Francisco—505 Seventh St. HE 1-2645
Ore., Portland—1238 N.W. Glisan. CA 8-3502
Wash., Seattle—1006 E. Seneca. MI 0630

E C & M DIV., SQUARE D CO., 4500 Lee Rd., Cleveland 28, Ohio
Magnets.
Branch
Calif., Los Angeles—P. O. Box 2115, Terminal Annex. CA 1-1171

ECONOMY ENGINEERING CO., 4511 W. Lake St., Chicago 24, Ill.
Elevators (barrel, package, portable tiering), Hoists (portable), Stackers (electric portable, hand portable), Trucks (bag, barrel, drum, die handling, elevating or lifting, paper roll, electric tiering).
Representatives
Ariz., Phoenix—Edwards Equip. Sales Co., P. O. Box 4306. AL 8-8165
Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza St. AN 9-0567
Ore., Portland—A. A. Schuler, 1128 S.W. Market St. CA 3-7901
Wash., Seattle—Burleigh Co., 5245 Pullman Ave. FI 5245

EDERER ENGINEERING CO., 2931 First Ave. So., Seattle 4, Wash.
Cranes (charging and drawing, gantry, hand power, overhead-double beam, electric and electric traveling, foundry, handpower traveling, "I" beam, monorail), Grapples, Hoists (crane, drum, electric, monorail, traveling).

EDISON, THOMAS A., EDISON STORAGE BATTERY DIV., West Orange, N. J.
Storage batteries.
Branches
Calif., Los Angeles—5225 Wilshire Blvd. WE 8-8090
Calif., San Francisco—1174 Howard St. HE 1-0322
Wash., Seattle—310 9th Ave. MA 1988

EDWARDS, E. H., CO., Butler Rd., South San Francisco, Calif. PL 6-2115
Wire rope.
Branches
Calif., Rivera—8454 E. Trojan St. RA 3-8845
Ore., Portland—2690 N.W. Nicola. CA 3-7351
Wash., Seattle—504 W. Idaho. MA 2218

EIMCO CORP., P. O. Box 300, Salt Lake City 10, Utah
Tractors (air, electric, diesel equipped with bulldozers), Front end loaders, Overhead excavating loaders.
Branches
Calif., Berkeley—637 Cedar St. LA 6-6884
Colo., Grand Junction—P. O. Box 153. CH 2-9418
Mont., Butte—8112 Granite. BU 2-0653
Wash., Seattle—WE 9079

ELECTRIC MARKETEER MFG. CO., 2195 W. Hwy. 99 (at New Jersey), Redlands, Calif. Phone 3-2447
Carts (electric cars and trucks), Trailers, Trucks (industrial electric).

ELECTRIC PRODUCTS CO., 1725 Clarkstone Rd., Cleveland 12, Ohio
Battery chargers.
Representatives
Ariz., Phoenix—Howard Jordan Co., 1007 Grand Ave. AL 2-5183
Calif., Burlingame—Donald T. Elliott, 1229 Burlingame Ave. DI 4-2518
Calif., Los Angeles—D. B. Cole & Co., 557 E. Walnut St. RY 1-8730
Colo., Denver—Hubert Kaub & Co., 1025 Santa Fe Dr. AL 5-7192
Ore., Portland—J. A. Tudor & Assoc., Inc., 1004 S.E. Belmont. BE 2-1188
Wash., Seattle—Muth-Richards Co., 1804 Bush Pl. CA 2128

ELECTRIC STEEL FOUNDRY CO., 2141 N. W. 25th, Portland 10, Ore.
Chains, Conveyors (chain or link, continuous flow, drag and flight), Grapples, Wire rope, Dragline buckets, Shovel dippers, Two-piece bucket and dipper teeth, Cutting edges, Wire rope fittings, Stainless steel castings, Manganese alloy steel castings, Stainless pipe, tube, fittings, Logging rigging, Woodmill equipment, Construction equipment, Stainless pipe tubing and fittings.

See advertisement on page 13

Branches
Calif., Emeryville—1280 65th St. OL 4-2732
Calif., Los Angeles—4600 Pacific Blvd. LU 1-7251
Colo., Denver—3940 Grape St. FL 5-2349
Ore., Eugene—1464 W. Sixth St. Phone 4-6171
Utah, Salt Lake City—29 E. 2nd So. EM 4-6371
Wash., Seattle—1131 W. Hanford St. EL 4161
Wash., Spokane—N. 1327 Washington St. FA 5-4507

ELECTRIC STORAGE BATTERY CO. see **EXIDE INDUSTRIAL DIV.**

ELECTRIC WHEEL CO., 1100 No. 28th St., Quincy, Ill.
Axles (trailer or truck), Trailers (factory and warehouse), Wheels (general industrial, hand truck, rubber tired, tractor, trailer).
Representative
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827

ELECTRO LIFT, INC., 204 Sargeant Ave., Clifton, N. J.
Hoists (drum, electric, monorail, portable, traveling, other).
Representative
Calif., Los Angeles—Irving G. King & Co., 821 Mateo St.

ELIZABETH IRON WORKS, INC., P. O. Box 360, Green Lane, Elizabeth, N. J.
Dock boards, Racks (portable), Ramps.
Representatives
(Most materials handling distributors in principal Western cities.)

ELWELL-PARKER ELECTRIC CO., 4509 St. Clair Ave., Cleveland 3, Ohio
Tractors (electric warehouse), Trucks (bag, barrel, drum, die handling, elevating or lifting, factory and warehouse, electric fork, industrial, gasoline lift, hydraulic lift, power-driven lift, packing house, paper roll, sheet handling, skid handling, electric tiering, other).

See advertisement on page 64

Representatives
Calif., Lynwood—J. W. Lafferty Co., 11371 So. Atlantic Ave. NE 6-1828
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827

Colo., Denver—Landes, Zachary & Peterson, 2500 W. Seventh St. MA 3-6203
Wash., Seattle—Colby Steel & Mfg. Co., 65 Horton St. EL 4388

EMHART MFG. CO., see **STANDARD-KNAPP DIV.**

ENGINEERING PRODUCTS CO., DIV. OF LEDEEN, INC., 3350 No. Gilman Rd., El Monte, Calif.
Hoists (air, hydraulic), Trucks (dolly, electric fork, hand, industrial, hand lift, hydraulic lift, pallet) Winches and Windlasses.

Representatives
Ariz., Phoenix—Lee Redman Equip. Co., 610 So. 19th Ave. AL 8-3794
Calif., Bakersfield—Hopper Machine Wks., 301 26th St. Phone 4-4991
Calif., Eureka—Eureka Boiler Wks., Foot of S St. HI 3-1681
Calif., Oakland—The Otrich Co., 3664 Grand Ave. TE 2-3781
Colo., Denver—Patten Engineering Co., 1745 Blake St. TA 5-3545
Nev., Reno—Sierra Machinery Co., 307 Morrill Ave. Phone 2-6981
N. Mex., Albuquerque—A. E. Boyd Equipment Co., 3108 Fourth St., N.W. Phone 4-6016, or 4-4033
Ore., Eugene—American Steel & Supply Co., 44 7th Ave. E. Phone 5-0373
Ore., Medford—American Steel & Supply, 703 Grape. Phone 2-7181
Ore., North Bend—Industrial Steel & Supply Co., P. O. Box 824. SK 9-2731
Ore., Portland—Portland Engineering Co., 10895 N.W. Cornell Rd. MI 4-2611
Utah, Salt Lake City—National Equipment Co., 101 W. 2nd So. St. EM 3-8878
Wash., Seattle—Standard Equipment Sales, 1731 1st Ave. SE 1955
Wash., Spokane—General Machinery Co., E. 3500 Riverside Ave. KE 1535

ENSIGN CARBURETOR CO., 1551 E. Orangethorpe Ave., Fullerton, Calif.
L.P. Gas equipment.

Representatives
Ariz., Phoenix—Butane Corp., 1627 W. Camelback. CU 3-3129
Calif., Fresno—Winther Bros., 612 Divisadero St. Phone 4-2498, 2-3179
Calif., Long Beach—Industrial Power & Equipment, 3160 Orange Ave. GA 7-7491
Colo., Denver—Spitzer Electrical Co., 43 W. Ninth Ave. AC 2-0581
Ore., Portland—Oregon Natural Gas Heating, 2745 N.E. Broadway. AT 7-0838
Utah, Salt Lake City—Diesel Electric Co., 60 E. Thirteenth So. HU 6126
Wash., Seattle—Liquefied Gas Equipment Co., 9611 E. Marginal Way. RA 2004
Wash., Spokane—Suburban Gas Service, 7907 E. Sprague Ave. WA 4-2540
Wyo., Casper—Auto Electric Equipment, 344 No. McKinley. Phone 2-5387

EQUIPMENT ENGINEERING SERVICES, see **SULLIVAN, ED.**

EQUIPMENT MANUFACTURING INC., 21550 Hoover Rd., Detroit 5, Mich.
Bins, Boxes for Shipping (steel), Racks (pallet, storage, coil), Trailers (factory and warehouse).

Representatives
Ariz., Phoenix—E. D. Flournoy Co., 420 So. Third St. AL 2-8607
Calif., Los Angeles—Green-Penny Co., 421 E. Washington Blvd. RI 8-1191
Calif., Oakland—Green-Penny Co., 2211 San Pablo Ave. GL 1-8555
Colo., Denver—Landes, Zachary & Peterson Co., 275 Kalamath St. MA 3-6203
Idaho, Idaho Falls—Arnold Machinery Co., Inc., 1265 W. Broadway. Phone 3672
N. Mex.—Albuquerque—E. D. Flournoy Co., 217 Sixth St. Phone 3-1055
Ore., Portland—Air-Mac, Inc., 1435 S.E. Union Ave. FI 6524
Utah, Salt Lake City—Arnold Machinery Co., Inc., 433 W. Second So. St. DA 2-5631
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. MU 3388

EQUIPTO DIV., AURORA EQUIPMENT CO., 422 Cleveland, Aurora, Ill.
Bins, Carts (hand, push, other), Racks (storage), Trucks (hand).

Branches
Calif., Los Angeles—2501 Yates. RA 3-4529
Calif., San Francisco—2166 Market St. KL 2-2958
Colo., Denver—1126 12th St. KE 4-8857
Ore., Portland—6635 N.E. Hancock.
Wash., Seattle—4310 Roosevelt Way. ME 6828

ERIEZ MFG. CO., 1945 Grove Dr., Erie, Pa.
Magnets

Branch
Calif., Los Angeles—Lee Barron, 5435½ E. Beverly Blvd. RA 3-3510

Representatives
Calif., San Francisco—Dick Dietrich Associates, 1355 Market St. KL 2-3611
Calif., San Francisco—Power-Mac Corp., 467 So. Van Ness Ave. UN 1-1430
Colo., Denver—Alldredge & McCabe, 847 E. 17th Ave. AL 5-7496
Wash., Seattle—Fred G. Greaves Co., 3215 Western Ave. AL 5111

EVANS PRODUCTS CO., 13101 Eckles Rd., Plymouth, Mich.
Evans DF loader, Auto-loader.

Branch
Calif., Los Angeles—615 W. P. Story Bldg. VA 9564

EXACT WEIGHT SCALE CO., 551 E. Town St., Columbus 15, Ohio
Industrial predetermined-weight scales, Automatic package and case check weighers, Automatic net weighing machines.

Branch
Calif., Los Angeles—P. O. Box 36374. WE 1-8487

Representatives
Calif., San Francisco—T. R. Mantes Co., 236 Fremont St. GA 1-7007
Colo., Denver—McDonald-Hunt Co., 1540 Wazee St. AC 2-5651
Idaho, Idaho Falls—Eugene Meyer, 136 Park Ave. JA 2-2151
Utah, Salt Lake City—186 E. 4050 South St. AM 6-8281

EXIDE INDUSTRIAL DIV., THE ELECTRIC STORAGE BATTERY CO., 42 So. 15th St., Philadelphia 2, Pa.
Batteries, storage.

Branches
Calif., Los Angeles—1043 So. Grand Ave. RI 9-4436
Calif., San Francisco—6150 Third St. MI 7-3100
Colo., Denver—234 Commonwealth Bldg. MA 3-7793

See advertisement on page 16

Ore., Portland—1224 S.W. Morrison St. CA 2-3778
Wash., Seattle—500 Wall St. EL 1377

F. A. B. MFG. CO., 1249 67th St., Oakland 8, Calif.
Axles (truck, trailer, front wheel drive conversions) Trailers (motor truck and tractor), Trucks (motor).

Representatives
Ariz., Phoenix—Welch Mfg. Co., 533 W. Jefferson St. Phone 3-3002
Calif., Los Angeles—Lambert Co., 1202 E. Olympic Blvd. MA 6-9581
Colo., Denver—Woeber Auto Body & Mfg. Co., 4950 Jackson St. FL 2366
Idaho, Boise—Boise-White Truck & Equipment Co., 914 Royal Ave. Phone 2-3666
Mont., Great Falls—Erwin H. Johnson, Inc., 1020 Third St. N. W. Phone 6-6662
N. Mex., Albuquerque—Winter-Weiss Co., 6130 No. Second St. Phone 4-3421
Ore., Portland—Northwest Truckstell Sales, Inc., 835 S. E. Hawthorne Blvd. BE 2-1114
Utah, Salt Lake City—Williamsen's, Inc., 1103 So. Sixth St. Phone 22-5658
Wash., Seattle—Truck Welding & Equipment Co., 737 Ninth Ave. No. EL 1172
Wash., Spokane—American Machine Co., W. 1026 Broadway. FA 2591

FAB-WELD CORP., P. O. Box 1447, Lackawanna County, Simpson, Pa.
Boxes (tote), Carts (hand and push), Dock Boards, Grabs, Hoppers, Pallets, Racks (pallet, storage), Skids, Tongs, Trailers (factory and warehouse), Trucks (die handling, dolly, hand).

Representatives
Calif., Los Angeles—Storage Racks Systems, Inc., 5141 Telegraph Rd.
Calif., San Francisco—Ira G. Perin Co., 5575 Howard St. GA 1-1827
Colo., Denver—Woodriff Bros., 610 Cooper Bldg. TA 2913
Wash., Seattle—Timmerman Equip. Co., 1310-12 Western Ave. MU 2767

FAIRBANKS CO., THE, 393 Lafayette St., New York 3, N. Y.
Carts (hand and push), Casters, skids, Trailers (factory and warehouse), Trucks (bags, barrel, drum, dolly, elevating or lifting, factory and warehouse, hand, packing house, paper roll), Wheels (general industrial, hand truck, rubber tired, trailer).

See advertisement on page 75

Representative
Calif., Los Angeles—Albert Tuch & Assoc., 9237½ Doheny Rd. BR 2-5974

FAIRBANKS, MORSE & CO., 600 So. Michigan Ave., Chicago 5, Ill.
Pumps (liquid handling), Scales (automatic, conveyor, counting, monorail, packaging, portable, warehouse).

See advertisement on page 24

Branch Offices
Calif., Los Angeles—4535 So. Soto St. LU 7-8151
Calif., San Francisco—630 Third St. EX 2-5855
Colo., Denver—4995 Colorado Blvd. FR 7-8845
Ore., Portland—105 S.E. Taylor St. BE 2-0131
Utah, Salt Lake City—153 W. 2nd So. St. EM 3-5139
Wash., Seattle—668 Lane St. MU 3450

FALK CORP., 3073 W. Canal St., Milwaukee 1, Wis.
Motoreducers, Shaft-mounted drives, Speed reducers, Couplings (shaft), Flexible, high speed drives, Special gear drives, Single helical and herringbone gears, Marine propulsion drives, Castings (steel), Weldments.

Branches
Calif., Los Angeles—1068 So. Vail. RA 3-8466
Colo., Denver—655 Broadway Bldg. AC 2-4707

Representatives
Calif., San Francisco—Transmission Engineering Co., 427 Bryant St. SU 1-4738
Ore., Portland—Western Machinery Corp., 1035 S. E. Ninth Ave. BE 6-4117
Wash., Seattle—A. T. Harris Co., 1500 Westlake No. AL. 8460

FARQUHAR, A. B., DIVISION, OLIVER CORP., 142 No. Duke St., York, Pa.
Belting (conveyor) Conveyors (automatic, bag and bale, belt, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, skate, trolley), Rollers (conveyor).

Representatives
Calif., Los Angeles—Brumley-Donaldson Co., P. O. Box 58281, Vernon Station
Calif., Los Angeles—Irving G. King Co., 821 Mateo St.
Idaho, Idaho Falls—Arnold Machinery Co., 1302 W. Broadway
Mont., Billings—Great Northern Tool & Supply Co.
Ore., Portland—F. E. Bennett Co., 626 W. 6th Ave.
Utah, Salt Lake City—Arnold Machinery Co., 427 W. Second So.
Wash., Seattle—Adelman Machinery Co., 520 First Ave., So.

FAULTLESS CASTER CORP., 1521 No. Garvin, Evansville 7, Ind.
Casters, Wheels (general industrial, hand truck, rubber tired, trailer), Floor truck locks.

Branch
Calif., Los Angeles—1252 So. Boyle. AN 8-7243

Representatives
Calif., Los Angeles—Garrett Supply Co., 3844 So. Santa Fe Ave. LU 8-7221
Calif., San Francisco—C. W. Marwedel, 1235 Mission St. UN 1-2125
Colo., Denver—Armstrong Caster Co., 465 Santa Fe Dr. AC 3777
Ore., Portland—John Negus Co., 3005 N. E. Sandy Blvd. BE 4-8515
Wash., Seattle—John Negus Co., 1016 First Ave. So. EL 5006, Local 16

FEDERAL FIBRE CORP., 3704 Tenth St., Long Island City 1, N. Y.

Fedco tote boxes, mill boxes, box trucks, conveyor boxes, under-counter receptacles, Fiberock waste receptacles, heavy-duty utility wheel cans.

Representatives

Calif., Los Angeles—Golden Bear Equipment Corp., 2505 So. Garfield Ave.
Calif., Los Angeles—M. F. Huseby Co., 2501 Yates Ave.
Calif., Oakland—Keene-Riese Co., 430 Ninth St.
Calif., San Francisco—Hockwald Chemical Co., 135 Mississippi St.

FEEDRAIL CORP., 125 Barclay St., New York 7, N. Y.

Electrification Systems for cranes, hoists, conveyor test lines, stackers, etc.

Representatives

Calif., Los Angeles—Allied Industries, 412 Seaton St. MU 2244
Calif., San Francisco—Eichorn & Melchior, 749 Bryant St. DO 2-1038
Wash., Seattle—E. A. Will, 534 First Ave. So. EL 2716

FERGUSON, HARRY J., CO., 115 West Ave., Jenkintown, Pa.

Conveyors (belt, chain or link, gravity roller, live roller, pallet, portable, skate, slat), Rollers (conveyor), Wheels (conveyor).

Representatives

Calif., Los Angeles—W. T. Billard Co., 734 E. Third St.
Calif., San Francisco—Warehouse Equip. & Supply, 471 Fulton St.
Ore., Portland—Charles H. Day Co., 225 S.W. First Ave.
Utah, Salt Lake City—Equipment Supply, 16 Post Office Place
Wash., Seattle—Air-Mac Equipment Co., 3838 Fourth Ave. So.

FIBREBOARD PAPER PRODUCTS CORP., 475 Brannan St., San Francisco 19, Calif. EX 2-3657

Boxes for shipping (corrugated, fibre and fibre board), Baskets (fibre), Packing material.

See advertisement on page 6

Branches

Calif., Fresno—Suite 5, 64 No. Fulton St. AM 8-5566
Calif., Oakland—290 26th St. TW 3-5041
Calif., Sacramento—2008 28th St. GL 7-5733
Calif., San Jose—1275 Lincoln Ave. CY 3-8343
Calif., San Francisco—1789 Montgomery St. DO 2-6900
Calif., Stockton—West Church St. HO 4-2837
Colo., Denver—2525 So. Delaware St. SH 4-3251
Idaho, Boise—402 Continental Bank Bldg. Phone 4-3842
Mont., Billings—202 M & R Bldg. Phone 2-3075
Ore., Portland—401-403 Terminal Sales Bldg. CA 8-3153
Utah, Salt Lake City—319 Kearns Bldg. EM 4-7721
Wash., Seattle—300 Skinner Bldg. MU 0440
Wash., Yakima—415 So. 3rd Ave. GL 3-5656

FIELD ENGINEERING PRODUCTS CO., 66 Foote Ave., Jamestown, N. Y.

Hydraulic level loading platforms, Hydraulic operated dock ramps, Hydraulic operated elevators.

Representatives

Calif., Oakland—E. H. Buehrer Assoc., 253 Fourth St.
Colo., Denver—Plant Equipment Co., 1400 Market St.
N. Mex., Albuquerque—E. D. Flourney, 217 Sixth St., S.W.
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So.

DAVE FISCHBEIN CO., 2730 30th Ave., So., Minneapolis 6, Minn.

Stitching and Stitching Equipment.

Representatives

Calif., San Gabriel—R. D. Helms Co., 8456 E. Las Tunas Dr. AT 6-5363
Calif., San Mateo—California Mill & Equipment Co., P. O. Box 1115. FI 1-3481
Ore., Portland—Reid-Strutt Co., Inc., 1015 S.E. Stark St. BE 4-5011

FLATON MACHINE WORKS, Broadway & West Primm Sts., St. Louis 11, Mo.

Torque controlling clutches.

Representatives

Calif., Los Angeles—Davis Material Handling Co., 4891 Huntington Dr. No. CA 2-7197
Calif., Oakland—Edward L. Parsons, 600 Sixteenth St. TW 3-1577
Colo., Denver—Spicer-Lindsay Assoc., 2475 W. 26th Ave.
Ore., Portland—Berg-Evans Chain Co., 240 S.W. First Ave.
Wash., Seattle—Berg-Evans Transmission Co., 616 Sixth Ave. So. EL 5092

FLEXANGLE CORP., 278 Park Rd., West Hartford 7, Conn.

Racks (Flexangle universal slotted angle system for storage).

Representatives

Calif., Long Beach—American Wholesale Hardware Co., 1500 W. Anaheim St.
Calif., Los Angeles—Andrey Co., 2479 Fletcher Dr. NO 4-1149
Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza St.
Calif., Los Angeles—Utilities Supply Co., 2852 Supply Ave.
Calif., San Francisco—Elder & Co., 333 Seventh St.
Ore., Portland—Portland Wire & Steel Warehouse, 4706 S.E. 18th Ave.
Wash., Seattle—Stack Steel & Supply Co., 500 Lander St.

FLEXIBLE STEEL LACING CO., 4607 Lexington St., Chicago 44, Ill.

Conveyor and transmission belt fasteners, V-belt fasteners, Belt cutters, Belt clamps, Rubber belt repair materials.

See advertisement on page 142

Representatives

Calif., San Mateo—James E. McComb, 10 Jody Court.
Wash., Seattle—John A. Marshall, 2403 W. 197th St. LI 5693

FLEXOVEYOR MFG. CO., 1220 So. Acoma St., Denver 23, Colo. RA 2-0805

Bag flatteners, Conveyors (automatic, bag and bale, belt, pallet, portable, special and other), Elevators (barrel, package, other), Loaders (box car, truck, portable, self-propelled), Pallet loaders.

FLINTKOTE CO., 5500 So. Alameda St., Los Angeles 54, Calif. LU 3-3011

Boxes for shipping (corrugated and fibre and fibreboard), Cartons (folding), Packing material.

Branches

Calif., San Leandro—2000 First Ave. EL 7-2772
Ore., Portland—5700 N.W. Front, Willbridge. CA 8-6411
Wash., Seattle—3908 Sixth Ave. N.E. ME 4350

FOOD MACHINERY & CHEMICAL CORP., PACKING EQUIPMENT DIV. 3075 14th St., Riverside, Calif.

Belting (conveyor), Conveyors (automatic, bag and bale, belt, chain or link, continuous flow, flight gravity roller, live roller, overhead, pallet, portable, skate, slat, special and other), Nailing machines (box and pallet making), Palletizer (automatic), Counters (recording), Rollers (conveyor), Trucks (bulk grain handling, hand, packing house), Wheels (conveyor, hand truck, rubber tired), Pallet loaders.

Branches

Ariz., Phoenix—1450 E. Henshaw Rd. AL 4-7118
Calif., Fullerton—320 E. Santa Fe. LA 5-4723
Calif., Fullerton—813 So. Cedar St. RA 3-2122
Calif., Lindsay—124 W. Apia St. Phone 2-2508
Calif., Lodi—32 So. Main St. Phone 9-2196
Calif., Los Altos—11320 Entrada Pl. WH 8-5218
Calif., Los Altos—11574 Farndon Ave. HE 1-7414
Calif., Santa Paula—1409 E. Main St. Phone 1560

FOOD MACHINERY & CHEMICAL CORP. see **JOHN BEAN DIV., FOOD MACHINERY & CHEMICAL CORP.**

FORKER CORP., 2044 Random Rd., Cleveland 6, Ohio

Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Hoists (air, chain, crane, electric, hand, monorail, traveling), Trolleys, conveyors (overhead).

Representatives

Calif., San Francisco—Stryco Mfg. Co., 470 Natoma St. SU 1-8310

FORT STEUBEN METAL PRODUCTS CO., P. O. Box 248, Steubenville, Ohio

Steel shelving, Parts bins, Work benches, Shop equipment.

Representatives

Ariz., Phoenix—James P. Kinney Co., 1101 Grand Ave. AL 2-1558
Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd. AN 9-7411
Calif., Los Angeles—Multa Frame, Calif., Inc., 7333 Coldwater Canyon
N. Mex., Albuquerque—James P. Kinney Co., 1706 Central Ave. S.E. Phone 2-2830

FORT WORTH STEEL & MACHINERY CO., 3600 McCart St., Fort Worth, Tex.

Screw conveyors, Screw elevators, Industrial fans, Wholly engineered systems, both mechanical and pneumatic, for handling bulk materials.

Branches

Calif., Los Angeles—3026 E. Olympic Blvd. AN 3-6128-29
Calif., San Francisco — 248 Ninth St. UN 3-3037
Colo., Denver—4975 Jackson St. FL 5-2294

Representatives

Ariz., Nogales—Occidental Electric Co.
Ariz., Phoenix—Arizona Conveyor & Equipment Co., 610 W. Jefferson St.
Ariz., Phoenix—Arizona Mining Supply Corp., P. O. Box 110. Phone 310
Ariz., Tucson—AWECO Supply Co., 800 So. Park Ave. MA 4-1781
Ariz., Yuma—Sturgess Implement Co., 355 Eighth St.
Calif., Arcata—Munnell & Sherrill, 1041 F St.
Calif., Cloverdale—Ukiah Wire Rope & Rigging Co., 29375 Redwood Hwy. So.
Calif., Colton—Valley Industrial Supply Co., 401 So. Eighth St.
Calif., Corcoran—Sawtelle & Rosprim, P. O. Box 958
Calif., El Centro—W. H. Douthitt Steel & Supply Co., Route 1, Box 183
Calif., El Centro—Winn Supply Co., 1562 San Diego Hwy.
Calif., Fresno—Elliott Mfg. Co., 1735 Ventura
Calif., Fresno—Pacific Mill & Mine Supply Co., 530 Van Ness Ave.
Calif., Fresno—George M. Philpott Co., 2376 So. Railroad Ave. AM 6-9843
Calif., Long Beach—Bay City Bearing Co., 2138 American Ave.
Calif., Long Beach—Power Pumps Inc., 2480 Cherry St. NE 6-8718
Calif., Los Angeles—Bearing Specialty Co., 225 W. 27th St. RI 9-5327
Calif., Los Angeles—C. R. Davis Co., 422 E. Third St.
Calif., Los Angeles—Pacific Mill & Mine Supply Co., 2338 E. Eighth St.
Calif., Los Angeles—Western Belting & Mechanicals, Inc., 3525 E. Emerey St.
Calif., Maywood—Bearing Specialty Co., 4610 E. Slauson Ave. LU 8-2245
Calif., Modesto—Girardi Bearing Co., 717 Eye
Calif., Oakland—Adam-Hill Co., 7501 San Leandro Blvd.
Calif., Ontario—Valley Industrial Supply Co., 1170 W. A St.
Calif., Pomona—Reliable Bearing Co., 246 So. Towne Ave. LY 9-5007
Calif., Sacramento—George M. Philpott Co., 1725 33rd St.
Calif., Salinas—Girardi Bearing Co., 257 John
Calif., San Bernardino—Reliable Bearing Co., 263 So. "E" St. Phone 8-6565
Calif., San Diego—Winn Supply Co., 256 Seventh St.
Calif., San Francisco—Adam Hill Co., 244 Ninth St.
Calif., Santa Maria—The Bearing House Calif., Pesco Rd. P. O. Box 932. Phone 5-4283
Calif., Santa Rosa—Santa Rosa Bearing Co., 622 Johnson St.
Calif., Stockton—Girardi Bearing Co., 148 E. Miner Ave.
Calif., Ukiah—Munnell & Sherrill, No. Hwy. 101
Calif., Ventura—The Bearing House Calif., 1252 No. Ventura Axe. MI 3-8182
Calif., Yuba City—Schmidt Pump House & Machine Shop, 720 Bridge St.

Nev., Reno—Sierra Machinery Co., 307 Morrill
Ore., Portland—Power Transmission Products, 1107 N.W. 14th Ave.

L. B. FOSTER CO., P. O. Box 548, Carnegie 22, Pa.

Steel sheet piling, H-bearing pile and pipe foundation pile, prime and structural grade steel pipe, railroad rail and track accessories, aluminum bridge rail, metal beam highway guard rail.

See advertisement on page 158

Branch
Calif., Los Angeles—3540 Wilshire Blvd. DU 3-3156

FROMMELT INDUSTRIES, 290-298 Main St., Dubuque, Iowa

Car-Dox all-weather dock shelter, Saf-T-Cone for tank car protection when handling bulk liquids.

Representatives
Calif., Los Angeles—E. D. Bullard Co., 6719 So. Figueroa.
Calif., Sausalito—E. D. Bullard Co., 2680 Bridgeway.

FRANKLIN COTTON MILL CO., THE, 1108 Central Parkway, Cincinnati

Belting (cotton, solid woven).

Representatives
Distributors located in all major Western cities.

FRUEHAUF TRAILER CO., 10940 Harper Ave., Detroit 32, Mich.

Semi-Trailers (closed van, open top, platform, dump, tank and bulk commodities), 4-Wheel trailers (all types), Truck bodies.

Branch Offices
Ariz., Phoenix—902 So. Seventh St. AL 8-6961
Calif., Fresno—2550 Church St. AM 4-6551
Calif., Los Angeles—1444 So. Alameda St. RI 7-6181
Calif., Oakland—850 92nd Ave. LO 9-3331
Calif., West Sacramento—3600 W. Capitol Ave. FR 1-6921
Colo., Denver—4780 Vasquez Blvd. AL 5-1793
Mont., Billings—1518 First Ave. No. Phone 5-5169
Utah, Salt Lake City—1082 So. Second W. EL 9-3721
Wash., Seattle—2411 Sixth Ave. So. MU 0487
Wash., Spokane—1107 Third Ave. MA 4-9151

FULLER CO., Bridge St., Catasauqua, Pa.

Conveyors (pneumatic).

Branches
Calif., Los Angeles—5225 Wilshire Blvd. WE 3-7126
Calif., San Francisco—564 Market St. YU 6-5486
Wash., Seattle—120 Sixth Ave. No. MU 3131

G. W. GALLOWAY CO., 220 So. First Ave., Arcadia, Calif. HI 6-2107, RY 1-5676

Electric operated hydraulic hoists and maintenance lifts.

Representatives
Calif., San Francisco—All West Wire Products Co., 2298 Jerrold Ave. AT 8-4570
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

GAR-BRO MFG. CO., 2415 E. Washington Blvd., Los Angeles 21, Calif.

Carts, Hoppers, Trailers, Trucks (dolly, factory and warehouse, hand, motorized hand), Wheelbarrows (industrial), Wheels (conveyor, general industrial, hand truck, rubber tired, tractor, trailer).

Representatives
Calif., Los Angeles—Garlinghouse, Fremon & Co., 6046 E. Washington Blvd., RA 3-8686
Calif., San Francisco—Edw. R. Bacon Co., 17th and Folsom. HE 1-3700
Ore., Portland—Loggers & Contractors Machinery Co., 240 So. Clay. EA 4128
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St. Phone 22-5631
Wash., Seattle—A. H. Cox & Co., 1757 First Ave. So. MA 1121

GAR WOOD INDUSTRIES, INC., Wayne, Mich.

Hoists and bodies, Winches and cranes.

Branch Offices
Calif., Richmond—Fourth and Wright St. BE 4-3914
Calif., Vernon—4515 So. Soto St. LU 3-3211

Representatives
Calif., Bakersfield—California Truck & Industrial Equipemnt Co., 2801 Brundage Lane
Calif., Fresno 3—Ruckstell California Sales Co., 452 W. Yolo St.
Calif., Pomona—Win Ward Co., 962 Price St.
Calif., San Diego 13—Utility Trailer Sales Co., 1950 Main St.
Colo., Denver—Woeber Auto Body & Manufacturing Co., 4950 Jackson St.
Colo., Grand Junction—S & M Supply Co., Inc., 735 So. Fourth
Hawaii, Honolulu—Home Welding Co. Ltd., 835 Keeaumoku St.
Idaho, Boise—The Sawtooth Co., 1115 Grove St.
Mont., Great Falls—Erwin H. Johnson Inc., 1620 Third St.
Nev., Reno—Sierra Machinery Co., Inc., 307 Morrill Ave.
N. Mex., Albuquerque—Construction Machinery Co., 2601 Second St.
Ore., Portland 22—Fruehauf Trailer Co., 16700 S.E. McLaughlin Blvd.
Utah, Salt Lake City—Trailmobile, Inc., 365 W. 1370 So.
Wash., Seattle—Fruehauf Trailer Co., 2411 Sixth Ave., So.
Wash., Spokane—Fruehauf Trailer Co., 1107 W. Third St.
Wyo., Casper—Studer Tractor & Equipment Co., E. Yellowstone Hwy.

GARDNER-DENVER CO., Front St., Quincy, Ill.

Hoists (air, drum), Trolleys.

Branches
Calif., Los Angeles—7654 E. Slauson Ave. RA 3-8711
Calif., San Francisco—811 Folsom St. EX 2-8747
Colo., Denver—1727 E. 39th Ave. AC 2-9393
Idaho, Wallace—407 Seventh St. Phone 1139
Mont., Butte—215 E. Park St. Phone 2-2662
Utah, Salt Lake City—113 W. Second So. St. EM 4-3202
Wash., Seattle—615 Eighth Ave. SE 1115

GATES RUBBER CO., 999 So. Broadway, Denver 17, Colo. SH 4-1911

Belting (fabric, canvas, endless, wire, other), Hose, Ropes, Sheaves, Tires.

Branches
Calif., Los Angeles—2850 E. 46th St. LU 3-9221
Calif., South San Francisco—242 Shaw Rd. PL 6-3711
Ore., Portland—2551 N.W. 30th Ave. CA 2-9641
Utah, Salt Lake City—748 Genesee Ave.
Wash., Seattle—3221 Western Ave. GA 3333

GAYLORD CONTAINER CORP., DIV. OF CROWN ZELLERBACH CORP., 111 No. Fourth St., St. Louis 2, Mo.

Barrels for shipping (corrugated), Baskets (corrugated), Boxes for shipping (corrugated and fibre and fibre board), Tote boxes (fibre).

Branches
Calif., Antioch—Gaylord plant.
Calif., Los Angeles—230 W. 30th St. RI 9-6388
Calif., Oakland—9029 San Leandro. TR 2-7741
Calif., San Francisco—420 Market St. YU 6-1268
Ore., Portland—1400 Public Service Bldg. CA 3-0757
Wash., Seattle—719 White-Henry-Stuart Bldg. SE 6922

GENERAL NAILING MACHINE CORP., 1324 Academy Ave., Sanger, Calif. TR 5-2545

Box making machines, Box lidders, Conveyors (automatic, belt, bucket, chain or link, continuous flow, flight, gravity roller, overhead, portable, skate, vibrating), Elevators (belt, bucket, continuous flow), Hoppers, Idlers (conveyor), Marking equipment, Packaging machinery, Pulleys (conveyor), Rollers (conveyor), Scales (automatic, conveyor, counting, packaging, portable), Tables (conveying), Vibrators, Wheels (conveyor).

Branch
Calif., Exeter—600 So. Quience. Phone 96

Representatives
Calif., Lodi—M. C. Locke, 111 Cross St. Phone 8-0114
Calif., Riverside — Shippers Supply Service, 3355 Arlington Dr. OV 3-5175
Colo., Grand Junction—Western Lumber Ind., 2761 Highway 50. CH 2-0251
Ore., Medford—Kay Paper Prod., 725 So. Grape. SP 2-9813
Wash., Yakima—Paxton Sales Corp., 102 No. Seventh Ave. Phone 3-7884

GERBING MANUFACTURING CORP., 11800 Milwaukee Ave., Northbrook, Ill.

Belting (variable speed), Pulleys (variable speed).

Branch
Calif., Maywood—4035 E. 52nd St. LO 5-5304

Representatives
Ariz., Phoenix—Edward D. Maltby Co., 120 So. Fourth Ave.
Ariz., Phoenix—Southwest Sales Co., 1620 E. Earll Dr.
Calif., Fresno—Commercial Mfg. & Supply Co., 2432 Railroad Ave.
Calif., Long Beach—Edward D. Maltby Co., 2041 Anaheim St. HE 7-1808
Calif., Los Angeles—Garrett Supply Co., 3844 Santa Fe Ave.
Calif., Los Angeles—Edward D. Maltby Co., 1713 So. Flower St. RI 7-9191
Calif., Los Angeles—J. W. Minder Chain & Gear Co., 6011 So. Central Ave.
Calif., Maywood—Edward D. Maltby Co., 4035 E. 52nd St. LO 5-5304
Calif., San Diego—Edward D. Maltby Co., 747 Fifteenth St.
Calif., San Francisco—Monarch Supply Co., 277 Pennsylvania Ave. UN 3-1740
Calif., Santa Clara—Monarch Supply Co., 2455 The Alameda. AX 6-4801
Ore., Portland—J. W. Minder Chain & Gear Co., 307 S.E. Hawthorne Blvd.
Ore., Portland—Western Machinery Corp., 1035 S.E. Ninth Ave.
Utah, Salt Lake City—Bearing Engineering & Sales, 756 So. Second W. EM 4-1877
Wash., Seattle—Washington Belting & Rubber Co., 2763 First Ave. So.
Wash., Spokane—Bitco, Inc., E. 2920-28 Trent Ave.
Wash., Walla Walla—Morrison Supply Co., 217-225 E. Alden St.
Wash., Yakima—Dodge-Yakima Supply Co., 109 So. Front St. Phone 3-8266

GERLINGER CARRIER CO., Lyle and Birch Sts., Dallas, Ore. MA 3-2391

Trucks (hydraulic lift, power-driven lift, straddle).

Representatives
Ariz., Phoenix—E. D. Flournoy Co., 3825 W. Indian School Rd.
Calif., Berkeley—Burnaby & Williams, 801 Anthony St.
Calif., Van Nuys—Burnaby & Williams, 15220 Erwin St.
Colo., Denver—Case Material Handling Co., 2855 W. 8th Ave.
N. Mex., Albuquerque—E. D. Flournoy Co., 217 Sixth St. S. W. Phone 3-1055
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand Ave.
Utah, Ogden—The Horsley Co., 2416 Grant Ave. Phone 2-1847
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388
Wash., Spokane—Air-Mac, Inc., E. 3710 Trent Ave. KE 0561

A. J. GERRARD & CO., 1950 Hawthorne Ave., Melrose Park, Ill.

Strapping and strapping equipment, Tape (packaging, pressure sensitive).

Branches
Calif., Los Angeles—4293 Bandini Blvd. AN 8-2858
Calif., San Leandro—14388 Washington St. EL 1-9020
Ore., Portland—6840 S.W. Macadam. CH 4-4040

Representatives
Ariz., Phoenix—Kistler Industrial Service, 902 So. Central. AL 8-7196
Calif., San Leandro—Ray Guarasci, 420 Thornally Dr.
Calif., Whittier—Norman Shabaz, 10902 Groveside Ave. OW 7-4905
Wash., Seattle—Richard Groark, 15802 Fifth Ave. N.E. MA 4898

GERRARD STEEL STRAPPING DEPT., U. S. STEEL SUPPLY DIV., U. S. STEEL CORP., 208 So. La Salle St., Chicago 4, Ill.

Strapping and Strapping Equipment.

Branches
Calif., Los Angeles—6061 E. Slauson Ave. RA 3-8577
Calif., South San Francisco—3603 Shaw Rd. JU 4-5885
Ore., Portland—1516 N.W. Thurman St. BE 2697
Wash., Seattle—1056 Sixth Ave. So. MA 8335

GLEASON CORP., 250 No. 12th St., Milwaukee 3, Wis.
Wheels (semi-pneumatic, steel disc), Casters.
Representatives
Calif., San Francisco 22—Phil Payton, 1790 34th St. MO 4-5066
Calif., Santa Fe Springs—James Boal, 11725 Clarkman Ave. TO 3-0960
Ore., Portland—Beaver Sales Co., 134 S.E. Taylor St. BE 2-3107
Utah, Salt Lake City—J. H. Nicodemus, 230 So. 4th St. W. EM 3-5587

GLOBE HOIST CO., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.
Hoists (electric, hydraulic, portable), Jacks (hydraulic), Platforms, Ramps.

See advertisement on page 27

Branch Office
Calif., Long Beach—1461 Canal Ave. HE 2-5431

GLOBE PACIFIC HOIST CO., 1461 Canal Ave., Long Beach 13, Calif.
Elevators (hydraulic, production use), Hoists (hydraulic), Jacks (hydraulic, lift), Platforms (loading), Ramps (loading), Tables (elevating).
Representatives
Ariz., Phoenix—E. D. Flournoy Co., 3825 W. Indian School Rd. AP 8-5574
Ariz., Phoenix—Lee L. Vaughn Co., 3111 No. 34th Pl. AM 6-9186
Ariz., Tucson—L. J. Clarke & Co., 2625 No. First Ave. MA 4-6233
Calif., San Diego—Blair-Martin Co., 4063 46th St. AT 4-5209
Calif., San Diego—Elevator Electric, Inc., 2118 Imperial Ave. BE 2-8241
Calif., San Diego—Winn Supply Co., 1676 Main. BE 3-3106
Calif., San Francisco—Independent Elevator Co., Inc., 2801 23rd St. MI 7-0315
Calif., San Francisco—Samson Sales Co., 420 Market St. EX 2-7070
Calif., San Jose—Eastman Equipment Co., 871 Park Ave. CY 5-2050
Calif., South Pasadena—Blair-Martin Co., 905 Mission St. RY 1-2861
Colo., Denver—Materials Handling Equipment Co., 1795 Sheridan Blvd. BE 7-0433
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5-5411
N. Mex., Albuquerque—E. D. Flournoy Co., 217 Sixth St. S.W. CH 3-1055
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd. CA 8-4196
Utah, Salt Lake City—Service Station Supply Co., Inc., 625 So. Second W. EM 4-5476
Wash., Seattle—Cascade Handling Equipment Co., 1741 First Ave. So. MA 7069

GOODRICH, B. F., INDUSTRIAL PRODUCTS CO., 500 So. Main St., Akron, Ohio
Belting (conveyor, elevator, endless), Conveyors, (belt), Elevators (belt), Packing material.
Branches
Calif., Los Angeles—3525 So. Garfield Ave., LU 1-6151
Calif., San Francisco—1950 Army St. AT 2-9620
Colo.,—Denver—2500 W. Eighth Ave. TA 5-1267
Wash., Seattle—1 Hanford St. MU 4300
Representatives
Ariz., Phoenix—Thunderbird Sales Corp., 2255 W. McDowell Rd. AL 4-8876
Calif., Los Angeles—Howard Supply Co., 5125 So. Santa Fe. KI 1281
Calif., Sacramento—Sacramento Rubber Co., 721 J St. GI 2-3847
Calif., San Francisco—Hercules Equipment & Rubber, 435 Brannan St. YU 6-2770
Calif., Stockton—Delta Rubber & Equipment Co., 530 No. Union St. 7-7813
Colo., Denver—A. J. Philpott Co., 1816 California. AL 5-0550
Ore., Portland—Empire Rubber & Supply Co., 1720 N. W. Marshall St.
Ore., Portland—General Rubber & Supply, 101 S.W. First Ave. AT 6565
Wash., Seattle—Nebar Supply Co., 3000 Western. MA 6292

GOODYEAR INDUSTRIAL PRODUCTS CO., INC., 18 Murray St., New York 7, N. Y.
Neoprene, Hycar and rubber to government specifications, Aprons, Boots, Bumpers, Clothing, Die cut parts, Extrusions, Gaskets, Gloves, Grommets, Hard rubber buckets, Dippers and funnels, Hose, Mallets, Mats and matting, Molded parts, Packings, Sponge rubber, Strippings, Stoppers, Tubing.
Representatives
(Address any inquiries to home office. Sales handled through field representatives.)

GOTTSCHO, ADOLPH, INC., No. 6 Evans Terminal, Hillside 5, N. J.
Marking Equipment.
Representatives
Calif., Los Angeles—King Sales & Engineering Co., 1749 E. Florence Ave.
Calif., San Francisco—King Sales & Engineering Co., 441 Folsom St. EX 2-7664

GOULD-NATIONAL BATTERIES, INC., First National Bank Bldg., St. Paul, Minn.
Batteries.
Branches
Calif., La Puente—14500 Nelson Ave. ED 6-4571
Calif., Oakland—1000 42nd St. OL 3-9292
Colo., Denver—2315 15th St. GE 3-2595
Ore., Portland—1973 N.W. Lovejoy St. CA 7-7461
Utah, Ogden—160 W. 28th St. Phone 3-5311

GOULDS PUMPS, INC., 240 Fall St., Seneca Falls, N. Y.
Pumps (liquid handling).
Representatives
Ariz., Tucson—Central Station Equipment Co.
Calif., Bakersfield—Kemble & Sons, Inc., 501 34th St. Phone 8-8538
Calif., Los Angeles—Pump Engineering Co., 2011 So. Santa Fe Ave.
Calif., San Diego—Standard Iron Supply, Harbor Dr. & Beardsley.
Calif., San Francisco—Woodin & Little, 33 Fremont St.
Colo., Denver—Warner Co., 3625 E. 48th Ave.
Mont., Billings—Midland Implement Co., 2303 Montana Ave. Phone 3155
Ore., Portland—R. M. Wade & Co., 1919 N. W. Thurman St.
Utah, Salt Lake City—Robert Taylor & Sons, P. O. Box 1223
Wash., Spokane—General Machinery Co., 3500 Riverside. KE 1535

GRANBERG CORP., 1308 67th St., Oakland 8, Calif.
Pumps (liquid handling).
Branch Office
Calif., South Gate—8997 State. Lo 7-4880
Representatives
Ore., Portland—Henry Kalz Co., 4023 No. Interstate. AT 7-9700
Wash., Seattle—Nebar Supply Co., Inc., 3000 Western Ave. MA 6292

GRAND SPECIALTIES CO., 3101 W. Grand Ave., Chicago 22, Ill.
Lift trucks (hand, battery and electric), Lift stackers (hand), Elevator (portable and stationary), Dumpers, Cranes (portable).
Representatives
Calif., Belmont—Chas. Sterry, 2045 Monroe. LY 3-9600
Calif., Los Angeles—Golden Bear Equip. Co., 2505 So. Garfield Ave. PA 1-7254 and RA 3-4638
Calif., Los Angeles—Marshall Tool & Supply, 2850 E. Olympic Blvd. AN 3-6121
Calif., Los Angeles—Yaeger & Sons, 1512 E. Olympic Blvd. TR 3576
Calif., San Francisco—R. D. Adams Co., 9th and Division Sts. UN 1-0700

GRATON & KNIGHT CO., INC., 356 Franklin St., Worcester 4, Mass.
Belting (leather), Belt Fasteners and Belt Lacing.
Branch Office
Calif., Oakland—541 E. 8th St. TW 3-7522
Representatives
Calif., Arcata—Munnell & Sherrill
Calif., Bakersfield—Hopper Machine Works
Calif., El Centro—Imperial Hardware Co.
Calif., Fresno—Pacific Mill & Mine Supply Co., Inc., 530 Van Ness
Calif., Los Angeles—Ducommun Metals & Supply Co., 4890 So. Alameda
Calif., Los Angeles—Pacific Mill & Mine Supply Co., Inc., 2338 E. Eighth St.
Calif., Redding—Gerlinger Steel & Supply Co.
Calif., Riverside—Belt & Equipment Supply Co.
Calif., Sacramento—Sacramento Rubber Co., 721 "J" St.
Calif., Sacramento—Van Voorhies-Phinney Co., 322 "J" St.
Calif., San Francisco—Baker & Hamilton Co., 700 Seventh
Calif., San Francisco—The Darcoid Co. of Calif., 234 Ninth St.
Calif., San Francisco—Degen Belting Co., 260 Mission
Calif., San Francisco—Honolulu Iron Works, Matson Bldg.
Idaho, Boise—Idaho Industrial Supply Co., 114 So. 23rd
Ore., Portland—Harris Supply Co., 524 N.W. 14th Ave.
Utah, Salt Lake City—Salt Lake Hardware Co., 105 No. Third W.
Wash., Aberdeen—Mill & Logging Supply Co.
Wash., Seattle—Chas H. Harden Co., 2221 Fourth St.
Wash., Spokane—Washington Machinery & Supply Co., 29 Cataldo
Wash., Tacoma—Ducharme Belting & Rubber Co., 501 E. 34th St.
Wash., Yakima—Yakima Hardware Co.

J. W. GREER CO., Wilmington, Mass.
Belting (wire), Loaders (pallet).
Branch
Calif., San Mateo—3827 Fernwood St. FI 5-3996
Representatives
Calif., Los Angeles — McKinley Equipment Corp., 1557 Esperanza St. AN 9-0567
Calif., Oakland—Lifton, Inc., 6601 San Leandro St. SW 8-9100
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5297
Ore., Portland—Charles H. Day Co., 225 S.W. First Ave. CA 9189
Utah, Salt Lake City—Foulger Equipment Co., 1361 So. Second W. St. Phone 7-5459
Wash., Seattle—Preston Faller, 1921 Minor Ave. MA 4256

Using this directory can save you time and money because manufacturers listed all have Western sales and engineering representation.

GRIPHOIST, INC., 424 Bryant St., San Francisco 7, Calif.
Hoists (hand, portable), Slings (rope), Winches.
Representatives
Ariz., Phoenix—Arizona Welding Equipment Co., 415 So. Seventh St. Phone 4-1781
Ariz., Tucson—Aweco Supply Co., 800 So. Park Ave. Phone 4-1781
Calif., Berkeley—J. R. Feeney, 600 Addison. AS 3-3246
Calif., El Monte—Warnock-Bancroft Equipment Co., 9635 Rush St. FO 0-4569
Calif., Eureka—Kramer Auto Supply, Fourth and C Sts.
Calif., Los Angeles—John A. Batchelor, 1207 E. 73rd St. KI 0579
Calif., Los Angeles—Dickson Safety Products, 2952 Crenshaw Blvd.
Calif., Los Angeles—Fornacieri Co., 5350 E. Washington Blvd. AN 9-7595
Calif., Los Angeles—Cable Distributors Inc., 4903 E. Washington Blvd. AN 9-3179
Calif., San Francisco—H. M. Armstrong Co., 702 Polk St. GR 4-1245
Calif., San Francisco—C. H. Bull Co., 115 Tenth St. UN 1-2466
Calif., San Francisco—Welch B. Elliott Co., 3415 Pierce St. WA 1-3283
Calif., San Francisco—A. T. Giesener Co., Inc., 975 Bryant. HE 1-6900
Calif., San Francisco—Weeks-Howe-Emerson, 750 Harrison. SU 1-3662
Calif., San Gabriel—Abernathy & Co., 361 No. Arroyo Dr. AT 4-4858
Calif., Stockton—Stockton Iron Works, Harrison and Lindsay. Phone 7-7691
Colo., Denver—Johnson-Tudor Co., 6198 Colorado Blvd. PE 3-4747
Idaho, Boise—Intermountain Equipment Co., Broadway and Myrtle. Phone 3-6441
Idaho, Wallace—Coeur d'Alene Hardware & Foundry Co., 612-622 Bank St.
Ore., Portland—Masonry Products Co., 206 N.E. 122nd Ave. AL 4-1972
Ore., Salem—Salem Steel & Supply, 180 Court St. Phone 2-3678
Utah, Salt Lake City—Cate Equipment Co., 49 E. Ninth So.
Utah, Salt Lake City—Holland Equipment Co., 2295 So. Second W. Phone 8-5856
Wash., Seattle—Clyde Equipment Co., 3410 First Ave. So.

Wash., Seattle—Industrial Products Co., 2811 First Ave. So.
Wash., Seattle—Rice Sales Co., 256 So. 160th
Wash., Tacoma—Webster-Robinson Machinery & Supply, Puyallup Ave. and "A" St.

HAMILTON CASTER & MANUFACTURING CO., 1529 Dixie Hwy., Hamilton, Ohio.

Carts (hand and push), Casters, Jacks (lift), Skids (barrel), Tires (industrial truck and trailer), Trucks (appliance, bag, barrel, drum, box type, dolly, factory and warehouse, hand, hand lift, packing house, paper roll, sheet handling), Wheels (general industrial, hand truck, rubber tired, trailer).

Representatives

Ariz., Phoenix—Kistler Industrial Service, 902 So. Central Ave.
Calif., Los Angeles—District Steel, Inc., 5249 Sheila St.
Calif., Modesto—Geiger Iron Works, Inc., 124 Willow
Calif., Sacramento—Geiger Iron Works, Inc., 2425 24th St.
Calif., San Diego—Standard Iron Supply, 1821 Harbor Dr.
Calif., Stockton—Geiger Iron Works, Inc., Scotts Ave. and Pilgrim St.
Colo., Denver—Materials Handling Equipment Co., 1795 Sheridan Blvd.
Ore., Bend—Moty & Van Dyke, Inc.
Ore., Klamath Falls—Moty & Van Dyke, Inc.
Wash., Seattle—Campbell Industrial Supply Co., 3433 Airport Way
Wash., Seattle—Charles Industrial Sales Co., 5201 First St. So.
Wash., Seattle—J. W. Ralston Co., 1401 W. Garfield

HAMILTON TOOL CO., THE, Ninth and Hanover, Hamilton, Ohio

Jacks (lifts, screw), Platforms (loading), Stackers (portable electric, portable hand), Tables (conveying, elevating, portable, other), Trucks (dolly, die handling, elevating or lifting, hand lift, hand-electric lift, hand-mechanical lift, pallet, sheet handling, skid handling).

Representatives

Calif., Los Angeles—Tornquist Machinery, 3838 Santa Fe. LO 8-1601
Calif., San Francisco—B-H-S Machinery, 717 Airport Blvd. PL 5-4466
Colo., Denver—Richard Ives Co., W. Colfax at Welton. AL 5-1411
Wash., Seattle—Hallidie Machinery Co., Inc., 210 Hudson St. LA 9520

HANDLING EQUIPMENT CORP., 22900 Frampton Ave., Torrance, Calif.

Manufacturers of custom built material handling equipment to customers' specifications, such as corrugated boxes, dump hoppers, rack dollies, cooler baskets and die racks.

HANSON CLUTCH & MACHINERY CO., Miami St., Tiffin, Ohio

Cranes (yard, truck, crawler).

Representatives

Ariz., Phoenix—Arizona Cedar Rapids Co., 1726 W. Jackson St. Phone 3-8205
Calif., Los Angeles—Larson Equipment Co., 2421 E. 57th St. KI 5201
Calif., San Diego—Kenton Equipment Co., 1895 Main St. BE 3-8913
Calif., San Francisco—Fred E. Barnett Co., 1455 Custer Ave. MI 8-2970
Colo., Denver—Accessory Supply Co., 2615 Walnut Ave. KE 2033

HAPMAN CONVEYORS, INC., DIV. OF HAPMAN-DUTTON CO., 630 Gibson St., Kalamazoo, Mich.

Conveyors (apron, bucket, chain or link, continuous flow, drag, flight, foundry, overhead, pallet, portable, slat, special and other).

Representatives

Calif., Los Angeles—Davis Material Handling Co., 4891 Huntington Dr. No. CA 2-7197
Calif., San Francisco—F. Somers Peterson Co., 157 13th St. MA 1-2255
Colo., Denver—Plant Equipment Co., 1400 Market. AL 5-5411
Wash.., Seattle—Charles Industrial Sales, 5201 First Ave. LA 6010

HARNISCHFEGER CORP., 4400 W. National Ave., Milwaukee 46, Wis.

Cranes (charging and drawing, gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, "I" beam overhead, monorail overhead, yard, truck tractor), Hoists (bucket, chain, electric, hand, monorail, portable, traveling), Scales (crane).

See advertisement on page 135

Branches

Ariz., Phoenix—39 W. Adams St., AL 4-1384
Calif., Los Angeles—2400 E. Imperial Hwy. LO 9-7141
Calif., San Francisco—100 Bush St., DO 2-2313
Colo., Denver—1108 15th St. AL 5-4877
Wash., Seattle—2909 First Ave So., MA 7720

Representatives

(Distributors in all large cities in the West.)

HARRINGTON CO., Gravers Rd., Plymouth Meeting, Pa.

Cranes (hand power, overhead hand power, overhead I beam), Hoists (chain, electric, hand, monorail), Trolleys (monorail).

Representatives

Calif., San Gabriel—Walter W. Abernathy, 361 No. Arroyo Dr.
Calif., San Francisco—Paul Watts, Inc., 265 Vermont St.
Ore., Portland—John C. Laing, 435 No. Tillamook

HARTMAN METAL FABRICATORS, INC., 133 Murray St., Rochester 6, N. Y.

Baskets (steel), Bins, Boxes (tote), Carts (hand and push), Conveyors (pallet), Dock boards, Pallets (steel), Platforms (loading), Racks (pallet, storage, other), Ramps (loading, etc.), Skids, Trailers (factory and warehouse), Trucks (factory and warehouse).

Representative

Calif., Lynwood—J. W. Lafferty Co., 11371 So. Atlantic Ave. NE 6-1828

HEIN-WERNER CORP., 1200 National Ave., Waukesha, Wis.

Jacks.

Representatives

Calif., North Hollywood—Leonard Lookabaugh, 5215 Corteen Pl.
Calif., San Francisco—Jack Duval Co., 885 Post St.
Colo., Denver—H. C. Babcock Co., 1122 Twelfth St.
Ore., Portland—Dirks & Co., 416 N. W. 14th A"e.

HENSEL GREEN & CO., 9 So. Clinton St., Chicago, Ill.

Tractors (diesel, gasoline warehouse, mobile welder), Trucks (industrial).

Representatives

Ariz., Phoenix—James P. Kinney Co., 1101 Grand Ave.
Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd. AN 9-7411
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827
Colo., Denver—H. W. Moore Equipment Co., Colorado Blvd. and 60th Ave.
Colo., Grand Junction—H. W. Moore Equipment Co., P. O. Box 1797

HEPPENSTALL CO., Fifth Ave. and 16th St., New Brighton, Pa.

Grabs.

Representatives

Calif., Burlingame—W. P. Wooldridge Co., 1209 Burlingame Ave. DI 2-0823
Calif., Los Angeles—W. P. Wooldridge Co., 6440 Fleet St. RA 3-6575
Utah, Salt Lake City—Industrial Supply Co., Inc., 131 Social Hall Ave. EM 3-6727

KARL A. HERMAN CO., 412 Fuller Ave. N.E., Grand Rapids 3, Mich.

Boxes (steel tote), Dockboards (steel counterweighted), Ramps (steel loading).

Representatives

Calif., Oakland—Roll-Rite Corp., 8th and Jefferson. GL 1-5921
Calif., San Francisco—Acme Equipment Co., 840 Harrison St. EX 2-1560
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5-5411
Wash., Seattle—G. E. Burleigh Co., 5245 Pullman Ave. FI 5245
Wash., Seattle—Mechanical Handling Co., 1401 W. Garfield St. GA 0200

HERTNER ELECTRIC CO., THE, 12690 Elmwood Ave., Cleveland 11, Ohio

Battery chargers (Motor generator type), A-c. and d-c. motors and generators in integral ratings, Magnet generators, High frequency power supplies.

Representatives

Calif., Los Angeles—John Hyatt Co., 1709 W. Eighth St. DU 3-7428
Calif., San Francisco—John B. McDonough, 112 Market St. DO 2-7080
Wash., Seattle 4—Stephen Thurlow, 1731 First Ave. So. MU 5488

HEWITT-ROBINS, INC., 666 Glenbrook Road, Stamford, Conn.

Baskets (wire), Belting (composition, conveyor, elevator, endless, wire, other), Conveyors (belt, bucket, foundry, vibrating), Elevators (belt, bucket), Hoists (drum, skip), Hose, Pulley (conveyor), Slings (belt), Winches.

Branches

Ariz., Phoenix—207-B Camelback Rd. CR 4-0245
Calif., Los Angeles—2604 So. Malt Ave. RA 3-4771
Calif., San Francisco—55 New Montgomery St. EX 2-4060
Colo., Denver—1324 19th St. AL 5-8765
Colo., Denver—660 Bannock St. AC 2-8484
Ore., Portland — 2034 N.E. Sandy Blvd. BE 5-1996
Utah, Salt Lake City—545 W. Eighth So. St. Phone 9-8731
Wash., Seattle—641 Dexter Horton Bldg. MA 8640

"HH" MFG., 2224 Cerritos Ave., Long Beach 6, Calif.

Yard Cranes, Hoists (crane, gasoline, hydraulic, portable), Loaders (portable, self-propelled, scoops), Gasoline warehouse tractors, Trailers (factory and warehouse), Trucks (bag, barrel, drum, gasoline fork, hand, gasoline lift, baggage, other).

Representatives

Ore., Portland—Air-Mac, Inc., 1435 S.E. Union Ave. FI 6524
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

HOLLAENDER MFG. CO., 3841 Spring Grove Ave., Cincinnati 23

Racks, Slip-on structural pipe fittings for racks, and all pipe structures.

Representatives

Calif., Los Angeles — McKinley Equipment Corp., 1557 Esperanza St.
Calif., Los Angeles—Pacific Metals Co., Ltd., 1400 So. Alameda St.
Calif., San Francisco—Pacific Metals Co., Ltd., 3100 19th St. EN 1-0806
Colo., Denver—Metal Goods Corp., 4343 Holly St. DU 8-4141
Ore., Portland—Pacific Metals Co., 303 N.W. Park Ave. BR 0693
Utah, Salt Lake City—Pacific Metals Co., 261 W. Fifth South St.
Wash., Seattle—Pacific Metals Co., 4150 First Ave. So.
Wash., Spokane—Pacific Metals Co., No. Lee and E. Sprague

HOLLYWOOD PLASTIC ARTS, INC., 515 East 9th St., Los Angeles 15

Boxes (tote), Trays (tote), Packaging and plastic displays.

HOLTZER-CABOT DIV., NATIONAL PNEUMATIC CO., Inc., 125 Amory St., Boston 19, Mass.

Door controls.

Representatives

Calif., Los Angeles—Paul Goen, 1341 So. Hope St.
Calif., San Francisco—Dom Politeo, 547 Howard St.
Ore., Portland—Harry M. Euler Co., 2811 N.E. Glisan St.

HOLZ RUBBER CO., INC., 1129 So. Sacramento St., Lodi, Calif.

Conveyor Belting Attachments, Vulco-Lagged Pulleys, Cleated Belts, Rubber Rollers, Pivot-Flite Cleats and Lead Grips, Solid Tires, Chute Lining, Molded Rubber Specialties.

See advertisement on page 145

Representatives
Calif., Los Angeles—Degen-Fiege Co., 4559 E. Shella. AN 9-0781
Calif., Los Angeles—Western Belting & Mechanicals Inc. 3525 Emery. AN 1-7117
Idaho, Pocatello—Paul Roberts Supply
Ore., Portland—General Rubber & Supply, 101 S.W. First Ave. AT 6565
Wash., Spokane—Modern Machinery Co., Inc., E. 4412 Trent Ave.
Wyo., Cheyenne—Keremi Tractor & Equipment Co., P. O. Box 908

E. C. HORNE MACHINERY CO., 1726 Champa St., Denver 2, Colo.
Conveyors (bag and bale, portable), Loaders and Unloaders (self-propelled portable).
Representative
Calif., San Francisco—M. O. Grove & Co., 310 Sacramento.

HOUGH, FRANK G., CO., THE, 889 Sunnyside Ave., Libertyville, Ill.
Payloader tractor-shovel, Paymover towing tractor, Paylogger.
Branch Offices
Calif., Hillsborough-San Mateo—1485 Lake View Dr. DI 4-6143
Calif., Inglewood—Merle M. Fate, 10509 Third Ave. PL 3690
Colo., Aurora 8—David B. Hunsaker, 900 Kenton St. EM 6-1993
Representatives
Ariz., Phoenix—Copper State Tractor Co., 407 So. 17th Ave.
Ariz., Tucson—F. Ronstadt Hardware Co., P. O. Box 5138
Calif., Bakersfield—Brown-Bevis, Industrial Equipment Co., P. O. Box 811
Calif., Eureka—Howard-Cooper Corp. of Calif., Highway 101, No.
Calif., Fresno—Allied Equipment Co., P. O. Box 871
Calif., Los Angeles—Brown-Bevis—Industrial Equipment Co., P. O. Box 2276
Calif., Oakland—Bay Cities Equipment Co., 2792 Cypress St.
Calif., Redding—Howard-Cooper Corp. of Calif. P. O. Box 673
Calif., Riverside—Braman-Dickerson Co., Inc., P. O. Box 471
Calif., Sacramento—Sacramento Valley Tractor Co., P. O. Box 1522
Calif., San Diego—Southern Equipment & Supply Co., P. O. Box 550
Calif., San Jose—Bay Cities Equipment Co., Inc., 1178 W. San Carlos
Calif., Santa Maria—Hanson Equipment Co., P. O. Box 870
Calif., Stockton—Delta Tractor Co., P. O. Box 839
Calif., Stratford—Orton Equipment Co., Main St.
Colo., Denver—H. W. Moore Equipment Co., P. O. Box 2491
Colo., Durango—H. W. Moore Equipment Co., Highways 160 anl 550, S.E.
Colo., Grand Junction—H. W. Moore Equipment Co., 2335 Grand Ave.
Idaho, Boise—Intermountain Equipment Co., P. O. Box 1129
Idaho, Idaho Falls—Lang Construction Equipment Co., P. O. Box 1254
Mont., Billings—Industrial Equipment Co., 1800 Sixth Ave. No.
Mont., Black Eagle—Power Equipment Co., P. O. Box 367
Mont., Kalispell—Treasure State Equipment Co., P. O. Box 138
Mont., Missoula—Treasure State Equipment Co., 400 Knowles Ave.
Nev., Las Vegas—Clark Co. Wholesale Merchandise Co., 512 So. Main St.
Nev., Reno—Sanford Tractor & Equipment Co., No. Valley Rd.
N. Mex., Albuquerque—J. D. Coggins Co., P. O. Box 467
N. Mex., Farmington—J. D. Coggins Co., P. O. Box 1356
Ore., Hermiston—Pendleton Grain Growers, Inc.
Ore., Pendleton—Pendleton Grain Growers Inc., P. O. Box 279
Ore., Portland—Howard-Cooper Corp., P. O. Box 3704
Utah, Salt Lake City—Lang Construction Equipment Co., 267 W. First So.
Wash., Seattle—The Carrington Co., 91 Columbia St.
Wash., Spokane—Modern Machinery Co., Inc., E. 4412 Trent Ave.
Wyo., Cheyenne—Keremi Tractor & Equipment Co., P. O. Box 908

HOUGHTON, E. F., & CO., 303 W. Lehigh Ave., Philadelphia, Pa.
Belting (leather), Belt fasteners & belt lacings.
Branches
Calif., Los Angeles—2445 E. 26th St. CA 1-6174
Calif., San Francisco—1500 Davidson Ave. VA 4-3207
Ore., Portland—202 S.W. Stark St. CA 8-9211
Wash., Seattle—90 Dearborn St. MA 7961

HOWARD, C. E., CORP., 9001 Rayo Ave., South Gate, Calif. LO 4-1811
Stainless steel truck and semi trailers for hauling liquids.
Branch
Calif., Oakland—449 Rich St. OL 8-5423
Representatives
Ore., Portland—Monroe Food Machinery, Inc., 1600 S.W. Harbor Dr. CA 6-3741
Utah, Salt Lake City—Monroe Food Machinery, Inc., 130 So. 4th W. St. EM 4-6537
Wash., Seattle—Monroe Food Machinery, Inc., 1226 1st Ave. So. SE 5770
Wash., Spokane—Monroe Food Machinery, Inc., 715 No. Madelia St. KE 4-9369

HOWE SCALE CO., Rutland, Vt.
Scales (automatic, conveyor, counting, monorail, packaging, portable, warehouse, other).
Branches
Calif., Los Angeles—2616 Malt Ave. RA 3-4876
Calif., San Francisco—780 Tennessee St. VA 4-4400
Colo., Denver—2524 Walnut St. AL 5-4364
Wash., Seattle—3222 Western Ave. GA 8660

HUGHES-KEENAN CORP., London Rd., Delaware, Ohio
Cranes (yard, truck, tractor).
Representatives
Calif., Los Angeles—Casey-Metcalf Machinery Co., 5515 E. Slauson Ave.
Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd.
Calif., San Francisco—Caesar Baldassari, 547 Howard St.
Utah, Salt Lake City—Foulger Equipment Co., 1361 So. Second West St.
Wash., Seattle—Preston Faller Co., 1921 Minor Ave. MA 4256

HUNTER WOODWORKS, 1235 E. 223rd St., Torrance, Calif.
Boxes for Shipping, Tote Boxes, Pallets, Cut Lumber, Wood Stacking material, Wooden Shipping Crates.

HURT CONVEYOR CO., 1220 Mateo St., Los Angeles 21, Calif. TR 6408
Belting (chain link, composition, conveyor, fabric, canvas, elevator, endless, wire, other), Belt fasteners, Belt lacings, Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, screw, skate, slat, trolley, other), Elevators (barrel, package, belt, bucket, continuous flow), Conveyor pulleys, Conveyor rollers, Tables (conveying, elevating, portable, other), Wheels (conveyor).

HYDROWAY SCALES, INC., P. O. Box 531, Oakridge Station, Royal Oak, Mich.
Scales (portable, crane).
Representatives
Calif., Glendale—Carl J. Kennedy Co., 918 No. Kenilworth. CH 5-3145
Calif., San Francisco—Edwin L. Fry, 420 Market St. DO 2-8515
Colo., Denver—Plant Equip. Co., 1400 Market St. AL 5-5411
Wash., Seattle—Materials Handling Equipment Corp., 2963 First St. So. SE 0997
Wash., Seattle—Mechanical Handling Co., 1401 W. Garfield. GA 0200

HYSTER CO., 2902-90 N. E. Clackamas St., Portland 8, Ore.
Cranes (yard, truck, tractor), Grabs, Trucks (bag, barrel, drum, box type, die handling, elevating or lifting, factory and warehouse, diesel fork, gasoline fork, gasoline lift, packing house, pallet, paper roll, sheet handling, skid handling and straddle), Winches and Windlasses.

See advertisement on page 15

Branches
Calif., Eureka—1303 Albee St. HI 2-4610
Calif., Los Angeles—2425 So. Garfield Ave. RA 3-6255
Calif., San Diego—1169 16th St. BE 9-4343
Calif., San Francisco—4445 Third St. MI 8-0680
Ore., Portland—5251 S.E. McLoughlin Blvd. BE 4-6471
Wash., Seattle—753 Ninth Ave. No. EL 2401
Representatives
Ariz., Phoenix—Equipment Sales Co., 720 So. 19th Ave. AL 8-7151
Colo., Denver—King & East Machinery Co., 2390 So. Delaware St., SH 4-1747
Idaho, Idaho Falls—Arnold Machinery Co., Inc., 1265 W. Broadway. JA 3-0822
N. Mex., Albuquerque—Equipment Sales Co., 4121 Edith, N.E. Phone 4-1124
Utah, Salt Lake—Arnold Machinery, 433 W. Second So. Phone 4-6401

INDUSTRIAL CRANE & HOIST, INGERSOLL PRODUCTS DIV. BORG-WARNER CORPORATION, 1536 So. Paulina St., Chicago 8, Ill.
Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power overhead, traveling locomotive overhead, I-beam overhead, monorail overhead).
Representatives
Ore., Eugene—Air Mac, Inc., P. O. Box 652. DI 2-2931
Ore., Portland—Air Mac, Inc., 1111 S.E. Grand. BE 4-6524
Wash., Seattle—Air Mac, Inc., 3838 Fourth Ave. So. MU 2-3288
Wash., Spokane—Air Mac, Inc., E. 3710 Trent. KE 5-2005
Wash., Tacoma—Air Mac, Inc., 1003 Washington Bldg. BA 1605
Wash., Yakima—Air Mac, Inc., 313 No. Grandview. GL 2-1552

INDUSTRIAL MARKING EQUIPMENT CO., 655 Berriman St., Brooklyn 8, N. Y.
Bags (multi-wall printers), Shipping boxes (printers and numberers), Conveyors (markers), Marking equipment (automatic).
Representatives
Calif., Oakland—James Q. Leavitt Co., 410 25th St., TW 3-9964
Calif., San Francisco—King Sales, 441 Folsom St., EX 2-7664
Colo., Denver—Edwin F. Deline, 224 W. Alameda Ave.
Ore., Salem—James Q. Leavitt Co., P. O. Box 67. Phone 2-0970
Utah, Ogden—James Q. Leavitt Co., P. O. Box 364. Phone 3-8551
Wash., Seattle—James Q. Leavitt Co., 2702 First Ave. So. MA 3654

INDUSTRIAL SKID & PALLET CO., 3401 E. 15th St., Los Angeles 23, Calif. AN 1-0259
Boxes (tote), Pallets, Platforms (skid), Racks (pallet, storage, other), Trucks (dolly, factory and warehouse, skid handling).
Representatives
Calif., Los Angeles—W. T. Gillard, Inc., 784 E. Third St. MI 2659
Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif., Los Angeles—Colson Equipment Co., 1317 Willow St. TR 5744
Calif., San Francisco—Ira G. Perin Co., 545 Howard St. GA 1-1827
Calif., San Francisco—Hamerslag Equipment Co., 45 Elmira St. JU 7-1357
Wash., Seattle—Secord Sales Co., 95 Connecticut St.

INGERSOLL KALAMAZOO DIV., BORG WARNER CORP., 1810 No. Pitcher St., Kalamazoo, Mich.
Load Lugger hoisting unit and detachable container system.
Representatives
Ariz., Phoenix—Western Truck Equip. Co., 3101 No. 29th Ave. AL 8-7184
Calif., Los Angeles—Ed Sullivan Equipment Engineering Services, 672 So. Lafayette Park Pl.
Calif., Richmond—Schultz Material Handling, 340 11th St., BE 3-7907
Colo., Denver—H. M. Rattle Co.,1398 So. Santa Fe Dr. KE 4-8575
Wash., Seattle—Lo-Lug Northwest, 500 Wall St. MU 3918

INGERSOLL-RAND COMPANY, 11 Broadway, New York 4, N. Y.
Hoists (air, chain, drum, electric and portable), Pumps (liquid handling).
Branch Offices
Calif., Los Angeles—1460 E. Fourth St. AN 8-6761
Calif., San Francisco—350 Brannan St. GA 1-6330
Colo., Denver—1641 Blake St. KE 4-2245
Mont., Butte—845 So. Montana St. Phone 2-0451
Ore., Portland—Room 1004, Broadway Bldg., Broadway and Morrison St. CA 3-1852
Utah, Salt Lake City—144 S.W. Temple St. DA 8-8127
Wash., Seattle—526 First Ave., So. MA 2866

INSLEY MFG. CORP., 801 No. Olney Ave., Indianapolis, Ind.
Cranes (yard, truck, tractor).
Branch Office
Calif., Los Angeles 54—P. O. Box 3129, Terminal
Representatives
Ariz., Phoenix—Shriver Machinery Co., 1756 Grand Ave.
Calif., Eureka—Ryperson-Lucas Equip. Co., 3408 Jacobs Ave.
Calif., Fresno—Contractors Equip. & Supply Co., 1143 C St.
Calif., Los Angeles—Essick Machinery Co., 1950 Santa Fe Ave.
Calif., Sacramento—Western Traction Co., 16th & American River
Calif., San Francisco—Western Traction Co., 1615 Jerrold Ave.
Calif., Santa Ana—Essick Machinery Co., 12202 Westminster Ave.
Calif., Stockton—Delta Tractor Co., No. Wilson Way and Hwy 99
Colo., Denver—Macdonald Equipment Co., 5300 Colorado Blvd.
Colo., Grand Junction—S & M Supply Co., Inc., 735 Fourth Ave., P. O. Box 247
Mont., Helena—Caird Engineering Works, P. O. Box 837
Nev., Reno—R. M. Jenkins Co., Inc., 100 Giroux St.
N. Mex., Albuquerque—M & F Equipment Co., 824 Arno, N.E.
Ore., Portland—Wood Tractor Co., 1033 S.E. Main St.
Utah, Salt Lake City—Lund Machinery Co., 2350 S.W. Temple.
Wash., Seattle—Washington Machinery Co., 7329 E. Marginal Way

INSUL-8-CORP., 1369 Industrial Rd., San Carlos, Calif.
Safety electrification for industrial cranes and monorails.
Representatives
Calif., Berkeley—Fletcher Sales Co., 2216 Fifth St. TH 3-1863
Calif., Pasadena—C. H. Currier Co., 2368 E. Foothill Blvd. RY 1-6896
Ore., Portland—J. A. Tudor Assoc., 1004 S.E. Belmont St. BE 2-1188
Wash., Seattle—Industrial Products, 2911 First Ave. So. MA 7488

IRONBOUND BOX & LUMBER CO., 42 Hoffman Place, Hillside, N. J.
Jacks (lift), Pallets, Trucks (box type, dolly, factory and warehouse, hydraulic lift, paper roll), Skids.
Representatives
Calif., Los Angeles—McKinley Equipment Co., 1557 Esperanza St.
Calif., San Francisco—P. F. O'Donnell Co., 527 Brannan St.
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl.
Wash., Seattle—J. W. Ralston Co., 1401 W. Garfield

IRON WORKS, INC., 116 King St., Brooklyn 31, N. Y.
Grabs, Racks (load safety).
Representatives
(Industrial truck dealers and manufacturers in all major Western cities.)

ISLAND EQUIPMENT CORP., 27-01 Bridge Plaza No., Long Island City 1, N. Y.
Conveyors (gravity roller, live roller, pallet, portable, skate), Rollers (conveyor), Tables (conveying, portable), Automatic carton unloader.
Representatives
(Inquiries should be addressed to firm's home office. Firm's field engineers travel to cover Western engineering assignments.)

JACKSON MFG. CO., P. O. Box 9, Harrisburg, Pa.
Carts (hand, push), Wheelbarrows (industrial), Wheels (general industrial, rubber tired).
Representatives
Calif., Los Angeles—Lippincott Co., 1052 W. Sixth St.
Calif., San Francisco—Lippincott Co., 995 Market St.
Utah, Salt Lake City—Lippincott Co., 109 W. Second St. So.
Wash., Seattle—Lippincott Co., 911 Western Ave.

JAKES FOUNDRY CO., 2800 Charlotte Ave., Nashville 9, Tenn.
Platform trucks, Hand trucks, Industrial trailers, Conveyor trucks, Industrial wheels.
Representatives
Ariz., Phoenix—Luna Corp., 447 W. Jefferson St.
Calif., Los Angeles—Colson Equipment & Supply Co., 1317 Willow St. TR 5743
Calif., Los Angeles—Union Hardware & Metal Co., 5555 Ferguson Dr. RA 3-2411
Calif., Los Angeles—Utilities Supply Co., 1736 E. 15th St. RI 9-3178
Calif., Los Angeles—Yaeger & Sons, 1512 E. Olympic Blvd. TU 5880
Calif., San Francisco—Elder & Co., 390 Seventh St. UN 1-5480
Calif., San Francisco—W. R. Voorhees & Co., 417 Market St. SU 1-6574
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5-5413
Idaho, Boise—R. H. Brown Co., 114 So. 23rd St. Phone 3-7311
Ore., Portland—R. H. Brown Co., 604 N.W. Sixth Ave. AT 5235
Utah, Salt Lake City—Materials Handling Engineers, 334 W. 17th So. St. IN 7-4871
Wash., Seattle—R. H. Brown Co., 502 First Ave. So. SE 0707

JARKE MANUFACTURING CO., 6333 W. Howard St., Niles 31, Ill.
Racks (wire coil, strip coil, bar, sheet), Portable tables (punch press feeding).
Representatives
Calif., Emeryville—Joseph T. Ryerson & Son, Inc., 65th and Hollis Sts.
Calif., Los Angeles—H. N. Bailey Industrial Supply Co., P. O. Box 74335—Oakwood Sta.
Calif., Los Angeles—Joseph T. Ryerson & Son, Inc., 4310 Bandini Blvd.
Wash., Seattle—Joseph T. Ryerson & Son, Inc., 1200 Fourth Ave So.
Wash., Spokane—Joseph T. Ryerson & Son., Inc., No. 207 Freya St.

JARVIS & JARVIS, INC., So. Main St., Palmer, Mass.
Casters, Trucks (dolly, hand), Wheels (rubber tired).
Representatives
Calif., Los Angeles—Utilities Supply Co., 1736 E. 15th St. RI 9-3178
Colo., Denver—Hahn Equipment Co., 1745 Blake St. KE 4-5500
Ore., Portland—Oregon Handling Equipment Co., 2949 N. W. St. Helens Rd. CA 8-4196
Wash., Seattle—Cascade Handling Equipment Co., 410 Battery St. MA 7069

JEFFREY MFG. CO., 951 No. Fourth St., Columbus 16, Ohio
Chains, Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, live roller, pallet, screw, slat, vibrating, special and other), Elevators (belt, bucket, continuous flow), Feeders (vibrating, mechanical), Hoists (skip), Pulley, Transmission machinery, Car pullers, Magnetic separators.

See advertisement on page 23

District Office
Calif., Burlingame—1862 Rollins Rd. OX 7-5303
Representatives
Ariz., Phoenix—Edward D. Maltby Co., 424 W. Jefferson. AL 4-9227
Calif., Eureka—Bearing & Transmission Products Co., 2930 Broadway
Calif., Fresno—General Bearings Co., 2820 Church Ave. AD 7-7104
Calif., Gardena—Alden Equipment Co., 1449 W. Rosecrans Ave. DA 9-6341
Calif., Long Beach—Edward D. Maltby Co., 2041 W. Anaheim. NE 6-7254
Calif., Los Angeles—Alden Equipment Co., P. O. Box 47666, Wagner Sta.
Calif., Los Angeles—Edward D. Maltby Co., 1940 So. Figueroa St. RI 7-9191
Calif., Maywood—Edward D. Maltby Co., 4035 E. 52nd St. LO 5-5304
Calif., Oakland—Bearing Engineering Co., 1019 Harrison St. TW 3-2251
Calif., Sacramento—Sacramento Engineering & Machinery Works, Sixth and "X" St.
Calif., San Diego—Edward D. Maltby Co., 745 15th St. BE 3-7278
Calif., San Francisco—Adam-Hill Co., 244 9th St.
Calif., San Francisco—General Conveyor, Inc., 870 Market St. EX 7-0737
Calif., San Francisco—Bearing Engineering Co., 1547 Mission St. HE 1-1500
Calif., Stockton—The Bearing Supply Co., 300 No. Wilson Way
Calif., Watsonville—Goodale Manufacturing Co., Inc., 38 Menker St. WA 2-2791
Colo., Denver—E. C. Horne Machinery Co., 1726 Champa St. TA 5-7015
Nev., Reno—Styris-Sutton Co., 622 So. Virginia. FA 2-3281
Ore., Portland—Northwest Chains & Sprockets, Inc., 123 S.W. Pine St. AT 5002
Utah, Salt Lake City—National Equipment Co., 101 W. Second So. St. Phone 3-8878
Wash., Seattle—Northwest Chains & Sprockets, Inc., 3628 E. Marginal Way. MA 8629
Wash., Spokane—National Equip. Co., 311 No. Adams Rd. WA 4-2930

JERVIS B. WEBB CO. OF CALIF., see **WEBB, JERVIS B., CO. OF CALIF.**

JOHNSON & FLAHERTY MFG. CO. 5801 District Blvd., Los Angeles
Racks (pallet, storage, other).
Representatives
Calif., San Francisco—Squires Co., 370 Fourth St. YU 6-4882
Wash., Seattle—Air-Mac Inc., 3838 Fourth Ave., So.

JOHN BEAN DIV., FOOD MACHINERY & CHEMICAL CORP., 1115 Coleman Ave., San Jose, Calif.
Carts (ground handling aircraft), Pumps, Trucks (ground handling aircraft).

JONES & LAUGHLIN STEEL CORP., 3 Gateway Center, Pittsburgh 30, Pa.
Wire rope, Slings, Wire rope fittings.
Branches
Calif., Los Angeles—4727 E. 48th St. LU 7-7232
Calif., San Francisco—Russ Building. EX 2-0266
Colo., Denver—4975 Colorado Blvd. DU 8-2416

JOYCE-CRIDLAND CO., 2027 E. First St., Dayton 3, Ohio
Dock boards (hydraulic, adjustable), Jacks (hydraulic, lift, screw, other), Platforms (loading, hydraulic), Lifts (hydraulic, industrial).
Representatives
Ariz., Phoenix—Paramount Mfg. Co., 515 So. First St. AL 4-4951
Calif., Los Angeles—Coast Elevator Co., 4171 Hoover St.
Calif., Los Angeles—Paramount Mfg. Co., 2336 E. 38th St. KI 2291
Calif., San Francisco—Paramount Mfg. Co., 905 Mills Bldg. GA 1-1416
Colo., Denver—Lyle Wolf Co., 1126 12th St. KE 4-8857
Ore., Portland—Paramount Mfg. Co., 816 N.W. 12th Ave. BE 8542
Wash., Seattle—Paramount Mfg. Co., 2221 Fourth Ave. EL 3363

JOY MFG. CO., Henry W. Oliver Bldg., Pittsburgh 22, Pa.
Complete line of belt conveyor equipment: idlers, drives, pulleys, take-ups, pre-fabricated truss sections, rope belt conveyors, controls and accessories. Hoists and car pullers.
Branches
Calif., Los Angeles—5426 E. Washington Blvd. RA 3-6305
Calif., San Francisco—1155 Harrison St. HE 1-2446
Colo., Denver—1626 Wazee St. KE 4-6334
N. Mex., Carlsbad—507 Park Dr. TU 5-4175
Ore., Portland—1631 N.W. Thurman St. CA 7-5561
Utah, Salt Lake City—998 So. Sixth W. St. DA 2-0481
Wash., Seattle—2411 Western Ave. MU 2266

KALAMAZOO MFG. CO., 1827 Reed St., Kalamazoo 24F, Mich.

Tractors (warehouse electric, gasoline warehouse), Trucks (bag, barrel, drum, industrial).

Branch Office

Calif., San Francisco—Gordon H. Proffitt, World Trade Center, Ferry Bldg.

Representatives

Calif., Los Angeles—James E. Simkins, 1748 W. 54th St. AX 1-2022

Utah, Salt Lake City—P & B Assoc., 3351 Elgin Dr.

Wash., Seattle—Air-Mac, Inc., of Washington, 3838 Fourth Ave. So. MU 3388

KAY-BRUNNER STEEL PRODUCTS, INC., 999 Meridian Ave., Alhambra, Calif. AT 2-2194 and CU 3-2141

Steel castings.

KELLEY CO., INC., 2129 W. Mill Rd., Milwaukee 9, Wis.

Hi-Lo automatic dockboards, Kelco dock bumpers.

Representatives

Ariz., Phoenix—James P. Kinney Co., 929 Grand Ave. AL 8-2778

Calif., Los Angeles—McKinley Equip. Corp., 1557 Esperanza St. AN 9-0567

Calif., Redwood City—Howard Burt & Son, 501 Standish St. EM 8-2806

Calif., San Diego—Earthmovers Equip. & Supply Co., 6029 Fairmount Ext. AT 1-3993

Colo., Denver—Raymond F. Purinton Assoc., 1863 Wazee St. AL 5-8452

Idaho, Boise—Arnold Machinery Co., Inc., 5024 Gage St. Phone 2-1174

N. Mex., Albuquerque—Albuquerque Materials Handling Co., 6431 Linn Ave. N.E. Phone 6-5518

Ore., Portland—Charles H. Day Co., 225 S.W. First Ave. CA 2-3187

Utah, Salt Lake City—Arnold Machinery Co., Inc., 433 W. Second So. DA 2-5631

Wash., Seattle—Liftruck & Equipment Co., 558 First So. MU 6336

KENDALL CO. see **POLYKEN SALES DIV., KENDALL CO.**

KIMBERLY-CLARK CORP., Neenah, Wis.

Packing material (Kimpak interior packaging cellulose cushioning and surface protecting material).

Branch Office

Calif., San Francisco—155 Sansome St., DO 2-4216

Representatives

Ariz., Phoenix—Blake, Moffitt & Towne, 101 E. Buchanan St.

Ariz., Phoenix—Zellerbach Paper Co., 702 No. 21st Ave.

Calif., Long Beach—Blake, Moffitt & Towne, 903 W. Fairbanks Ave.

Calif., Los Angeles—Blake, Moffitt & Towne, 242 So. Los Angeles St.

Calif., Los Angeles—Ingram Paper Co., 6541 E. Washington Blvd.

Calif., Los Angeles—Zellerbach Paper Co., 4000 E. Union Pacific Ave.

Calif., Oakland—Blake, Moffitt & Towne, 21st and Union Sts.

Calif., San Diego—Blake Moffitt & Towne, 1929 Hancock St.

Calif., San Francisco—Blake, Moffitt & Towne, 599 Eighth St.

Calif., San Francisco—Zellerbach Paper Co., 534 Battery St.

Colo., Denver—Carpenter Paper Co., 1504 23rd St.

Colo., Denver—Graham Paper Co., 1625 Blake St.

Idaho, Boise—Blake, Moffitt & Towne, P. O. Box 896

Idaho, Boise—Dixon & Company, 1500 Grand Ave.

Nev., Reno—Blake, Moffitt & Towne, 310 Quincy St.

Nev., Reno—Zellerbach Paper Co., 420 Valley Rd.

N. Mex., Albuquerque—Carpenter Paper Co., P. O. Box 536

N. Mex., Albuquerque—Graham Paper Co., 119 So. John St.

Ore., Portland—Blake, Moffitt & Towne, 17 S.E. Third Ave.

Tex., El Paso—Carpenter Paper Co., 2300 E. Missouri St.

Tex., El Paso—Graham Paper Co., 201 Anthony St.

Utah, Salt Lake City—Carpenter Paper Co., 331 Rio Grande St.

Utah, Salt Lake City—Dixon & Company, 159 W. Third So.

Utah, Salt Lake City—Zellerbach Paper Co., P. O. Box 330

Wash., Seattle—Blake, Moffitt & Towne, 4201 W. Marginal Way

Wash., Spokane—Blake, Moffitt & Towne, W. 513 Railroad Ave.

Wash., Tacoma—Blake, Moffitt & Towne, 1157 Thorne Rd.

KINNEY MANUFACTURING DIV., THE NEW YORK AIR BRAKE CO., 3529 Washington St., Boston 30, Mass.

Rotary liquid handling pumps, vacuum pumps, vacuum equipment.

Branch Office

Calif., Los Angeles—5058 Venice Blvd. WE 8-7292

Representatives

Calif., San Francisco—King-Knight Co., 360 Jefferson St. PR 6-2700

Calif., Santa Rosa—Optical Coating Labs, Inc., 1035 Sebastopol Rd. LI 5-6440

Wash., Seattle—R. L. Dyer, 903 Northern Life Bldg. MA 3443

KNICKERBOCKER CO., see **TRUCKMAN DIV.**

KOEHRING DIV., KOEHRING CO., 3026 W. Concordia Ave., Milwaukee 16, Wis.

Cranes, Trucks.

Branch

Calif., Stockton—2200 Country Club Blvd.

Representatives

Ariz., Phoenix—Neil B. McGinnis Equipment Co., 500 So. Central Ave. AL 8-5391

Calif., Los Angeles — Harron, Rickard & McCone, 3850 Santa Fe Ave. LU 2-8361

Calif., San Francisco — Standard Machinery Co., 450 Bayshore Blvd. AT 2-2883

Idaho, Boise—Engineering Sales & Service, 410 Capitol Blvd. Phone 3-2535

Mont., Billings—Western Construction Equipment Co., 505 No. 24th St. Phone 9-5501

N. Mex., Albuquerque—Harry Cornelius Co., 1510 Second St. N.W. CH 3-1776

Ore., Portland—Columbia Equipment Co., 1240 S.E. 12th Ave. BE 2-7147

Utah, Salt Lake City—Kimball Equipment Co., 1846 So. Second W. HU 4-6109

Wash., Seattle—Pacific Hoist & Derrick, 3200 Fourth Ave. So. EL 1860

Wash., Spokane—American Machine Co., 1026 W. Broadway. FA 5-2591

KOEHRING CO., see also **KWIK-MIX CO., A DIV.**

KOLMAN MANUFACTURING CO., W. 12th St. Rd., Sioux Falls, S. Dak.

Conveyors (belt), Cranes (yard, portable), Pulleys conveyor).

Branch Office

Calif., San Francisco 22—S. A. Madrid, 1739 32nd Ave. OV 1-8346

Representatives

Calif., Los Angeles—Brown-Bevis Industrial Equipment Co., 6550 E. Washington St. PA 8-7161

Calif., Oakland 20—Spears-Wells Machinery Co., 1832 W. Ninth St., GL 1-3432

Colo., Denver—Faris-Moritz Equipment Co., 5790 Colorado Blvd. AT 8-2684

Idaho, Boise—Intermountain Equip. Co., P. O. Box 1129. Phone 3-6441

Mont., Butte—Hall-Perry Machinery Co., 812 E. Iron St. Phone 2-2323

Nev., Elko—A-D Machinery Co., 251 W. Commercial St. Phone 92

N. Mex., Albuquerque—Construction Machinery Co., 2601 2nd N.W. Phone 4-1633

Ore., Portland—Balzer Machinery Co., 2136 S.E. 8th St. BE 2-2141

Utah, Salt Lake City—Rasmussen Equipment & Supply Co., 1960 So. Second W. HU 5-5478

Wash., Seattle—Sahlberg Equip., Inc., 5950 4th Ave. So. MO 6060

Wyo., Cheyenne—Wortham Machinery Co., 517 W. 17th St. Phone 7-7766

KUGHLER DEVELOPMENT CORP., 115-117 E. 129th St., New York 35, N. Y.

Lift truck attachments for drum handling and gaining of extra height.

Representatives

Calif., Los Angeles—J. P. Kinney Co., 5141 Telegraph Rd.

Calif., Oakland—Lifton Inc., 6601 San Leandro. SW 8-9100

K. W. BATTERY COMPANY, INC., 3555 Howard St., Skokie, Ill.

Batteries.

Representatives

Calif., San Francisco—Scott-Meehan Co., 439 Bryant St. DO 2-3428

Colo., Denver—Westric Battery Co., 4201 Galapago St. GE 3-6322

KWIK-MIX CO., DIV. OF KOEHRING CO., 235 W. Grand Ave., Port Washington, Wis.

Trucks (bag, barrel, drum, box type, elevating or lifting, factory and warehouse, gasoline fork, motorized hand, industrial, gasoline lift, hydraulic lift, power-driven lift, motor, packing house, pallet, skid handling).

Representatives

Ariz., Phoenix—Neil B. McGinnis Co., 500 So. Central Ave.

Calif., Bakersfield—San Joaquin Tractor Co., P. O. Box 216, Station B

Calif., Los Angeles—Harron, Rickard & McCone Co., 3850 Santa Fe Ave.

Calif., Oakland—Industrial Foundry & Supply Co., Inc., 2500 Union St.

Calif., San Francisco—Standard Machinery Co., 450 Bayshore Blvd.

Calif., South Gate—Cost Reduction Equipment Co., 5200 Chakemco St.

Calif., Stockton—Action Equip. Co., 2915 E. Miner St.

Colo., Denver—Armstrong Caster Co., 465 Santa Fe Dr.

Colo., Denver—Plant Equipment Co., 1863 Wazee

Idaho, Boise — Engineering Sales & Service, Inc., 410 Capitol Blvd.

N. Mex., Albuquerque—Harry Cornelius Co., 1510 No. Second St.

N. Mex., Hobbs—Leaco Co.

Ore., Portland—Columbia Equipment Co., 1240 S.E. 12th Ave.

Ore., Portland—Pacific Builders Supply Co., 400 No. Thompson St.

Utah, Salt Lake City—Kimball Equipment Co., 232 W. 17th So. St.

Utah, Salt Lake City—National Equipment Co., 101 W. Second St.

Wash., Seattle—Pacific Hoist & Derrick Co., 3200 Fourth Ave.

Wash., Spokane—American Machine Co., 1026 W. Broadway

LAHER SPRING & TIRE CORP., 2615 Magnolia, Oakland 7, Calif.

Batteries, Tires (industrial truck and trailer), Trucks (electric industrial).

Branch Offices

Calif., Los Angeles—807 E. 8th St. TR 3535

Calif., Sacramento—1217 16th St. GI 2-6851

Calif., San Francisco—98 12th St. KL 2-2106

Ore., Portland—133 N.W. 15th Ave. CA 7-1406

Utah, Salt Lake City—541 So. State St. EM 3-5871

Wash., Seattle—714 E. Pike St. BA 0366

Representatives

Ariz., Phoenix—Superior Equipment Co., P. O. Box 6325

Calif., Los Angeles—B. Hayman Co., 3301 Leonis Blvd.

Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd.

Calif., Oakland—Lyco Equipment Co., 1115 Webster St.

Calif., Pebble Beach—Col. Geo. Townsend, Box 454

Calif., Redwood City—Howard Burt & Son, 505 Standish St.

Calif., Salinas—Dick Millburn, 324 No. Main St.

Calif., Santa Barbara—Mel Smith, Valley Club of Montecito, P. O. Box 1140.

Colo., Denver—Collier Electric Co., 700 W. 13th Ave.

Colo., Denver—Manning, Hone & Siekmeier, Inc., 1449 So. Broadway

Mont., Billings—Hope Enterprises, Box 1956.

Ore., Oswego—Wm. A. LaValley, 110 Oak St.

Wash., Seattle—Air Mac, Inc., 3838 Fourth Ave. So.

LAMSON & SESSIONS CO., 5000 Tiedeman Rd., Cleveland 9, Ohio

Bolts, Nuts, Screws, Wire rope slips.

Representatives

Calif., Los Angeles—J. J. Brown Co., 257 So. Spring St.

Wash., Bellevue—Tom Blunden, P. O. Box 446

LAMSON CORP., Lamson St., Syracuse 1, N. Y.

Conveyors (automatic, bag and bale, belt, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, pneumatic, portable, skate, slat, trolley and special). Storage racks, Conveyor rollers, Conveying, Elevating and Portable tables, Pallet loaders, Erecto conveyor (pre-engineered) units.

Branches

Calif., Los Angeles—306 E. Washington Blvd. RI 7-0615
Calif., San Francisco—555 Bryant St. SU 1-8852

Representatives

Colo., Denver—Wm. Colin Kirk & Associates, 1197 Stout St. KE 4440
Wash., Seattle—H. L. Kirkwood, 2202 First Ave. W. SE 6860
Wash., Seattle—Thurlow-Moe, Inc., 2405 11th Ave. S.W. EL 5272 and MU 1323

(Erecto Dealers)

Calif., Berkeley—Lamson Mobilift Corp., 2730 San Pablo. AS 3-5535
Calif., Fresno—Valley Handling Equipment Co., 3807 E. Jensen

LAMSON MOBILIFT CORP., 835 S.E. Main St., Portland 14, Ore.

Industrial trucks (gasoline powered, both stand-up and control models and sit-down models).

Branch Offices

Calif., Berkeley—2730 San Pablo Ave. AS 3-5535

Representatives

Ariz., Phoenix—Clifton Truck Rentals, 935 Van Buren St. E. AL 8-8083
Calif., Fresno—Valley Handling Equipment Co., 3807 E. Jensen Ave. AM 6-1562
Calif., Gridley—Butte Equipment Co., P. O. Box 205. Phone 5683
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Colo., Denver—Kistler Machine Shop, 2536 So. Delaware. RA 2-8748
N. Mex. Albuquerque—N. C. Ribble Co., 1304 No. Fourth. Phone 3-3733
Ore., Klamath Falls—McVay Machine Shop, 2625 Green Springs Dr. TU 4-6901
Ore., Portland—Lift Truck Parts & Service, 736 N.E. Broadway. AT 1-1213
Utah. Salt Lake City—Industrial Supply Co., 135 Social Hall Ave. EM 3-6727
Wash., Seattle—Masterson's Equipment Supplies. Inc., 2720 Westlake No. GA 0245
Wash., Spokane—Standard Cycle & Supply Co., 1811 E. Sprague Ave. KE 5-2014
Wash., Yakima—Northwest Equip. Co., P. O. Box 73. GL 3-9925

LANGE LIFT CO., 4275 No. 124th, Milwaukee 10, Wis.

Trucks (die handling, elevating and lifting, hand lift, hand-electric lift, hand-mechanical lift, hydraulic lift, sheet handling).

Representative

Calif., North Hollywood—Magesco, 7340 Radford. ST 7-0838

F. N. LANGSENKAMP CO., 229 E. South St., Indianapolis 25, Ind.

Dock boards, Ramps, Pallets.

Representative

Calif., Los Angeles—A. Raymond Moore, 1749 E. Florence Ave. LO 8-6606

LANSING CO., 521 N. Cedar St., Lansing, Mich.

Hand trucks, Platform trucks, Dollies, Lift jacks and skids, Towline trucks, Trailer trucks, Hand carts, Wheelbarrows.

Branch

Calif., San Francisco—101 Park. EX 2-2974

Representative

Ore., Portland—Beaver Sales, 134 S.E. Taylor. BE 2-3107

LEDEEN, INC., see **ENGINEERING PRODUCTS CO., DIV. OF LEDEEN, INC.**

See advertisement on page 58

LEE ENGINEERING CO., 269 Armistice Blvd., Pawtucket, R. I.

Elevators (portable tiering), Stackers (portable electric, portable hand), Trucks (electric fork, hand, motorized hand, hand lift, hand-electric lift, hydraulic lift, skid handling, straddle, electric tiering), Truck floorlocks.

Representatives

Ariz., Phoenix—Naumann Lift Trucks, Inc., 2308 So. 11th Ave. AL 8-8951
Calif., Los Angeles—Boman Co., 3316 E. Olympic Blvd. AN 9-0761
Calif., North Hollywood—Magesco, 7340 Radford. ST 7-0838
Colo., Thornton—Equipment Engineering, 1400 Ruth Dr. AT 7-5255

LEE RUBBER & TIRE CORP., see **REPUBLIC RUBBER DIV.**

LESCHEN WIRE ROPE DIV., H. K. PORTER CO., 2727 Hamilton Ave., St. Louis 12, Mo.

Slings (wire rope), Wire rope.

Branches

Calif., Los Angeles—6424 E. Fleet St. RA 3-1395
Calif., San Francisco—520 Fourth St. GA 1-8134
Wash., Seattle—2724 First Ave. So. SE 0851

LETOURNEAU-WESTINGHOUSE CO., 2301 N.E. Adams St., Peoria, Ill.

Tournatractors (heavy-duty, rubber-tired, diesel), Cranes (jib, mobile), Traveloaders (mobile, belt-type), Tournarope (wire rope).

Representatives

Ariz., Phoenix—Road Machinery Co., 716 S. 7th St. AL 8-7981
Ariz., Tucson—Road Machinery Co., 2601 So. Fourth Ave. MA 4-2539
Calif., Bakersfield—Crook Co., 2314 N. Chester Ave. EX 9-1092
Calif., Los Angeles—Crook Co., 2900 Santa Fe Ave. LU 8-7214
Calif., Oakland—Blakemore Equipment Co., 9025 G St. LO 2-3482
Calif., Sacramento—Blakemore Equipment Co., 769 N. 16th St. GI 3-3965
Colo., Denver—Johnson-Tudor Co., 6198 Colorado Blvd. AT 8-1513
Idaho, Boise—G. K. Machinery Co., 5200 Federal Way. Phone 4-5593
Mont., Billings—Western Construction Equipment Co., P. O. Box 2537. Phone 9-5501
Mont., Great Falls—Western Construction Equipment Co., 2322 River Dr. GL 3-1405 (TWX)
Nev., Reno—Pioneer Equipmentt Co., 525 Kietzke Lane. FA 3-1333
N. Mex., Albuquerque—Contractor's Equipment & Supply Co., 707 Broadway N.E. Phone 3-3565
Ore., Eugene—Loggers & Contractors Machinery Co., 540 Filmore St. DI 5-4334
Ore., Portland—Loggers & Contractors Machinery Co., 240 S.E. Clay St. BE 2-0151
Utah, Salt Lake City—Rocky Mountain Machinery Co., 1485 So. Second W. St. HU 4-4378
Wash., Seattle—Western Tractor & Equipment Co., 745 Lucile St. LA 8600
Wash., Spokane—Inland Diesel & Machinery Co., E. 3511 Trent Ave. KE 5-2434
Wyo., Casper—Moss Equipment & Supply Co., 3100 E. Yellowstone. Phone 2-4547

LEWIS, G. B., CO., 406 Montgomery St., Watertown, Wis.

Woven wood-and-wire returnable shipping boxes; 4-wheel box trucks; stacking and skid boxes; Fiberglass reinforced polyester tote boxes, trays and 4-wheel panel trucks.

See advertisement on page 82

Representatives

Calif., Fresno—Valley Forklift Rental & Equipment Co., 2424 So. Railroad Ave. Phone 8-2074
Calif., Los Angeles—Irving G. King & Co., 821 Mateo St. TU 3176
Calif., Oakland—E. C. Buehrer Associates, Inc., 253 Fourth St., TE 6-2082
Colo., Denver—L. J. Sinow, 318 Albion St. AL 5-7245
Ore. Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd. CA 8-4196
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. Phone 3-9074
Wash., Seattle—A.I.M. Plastics Co., 2450 6th Ave. So. MA 0279

LEWIS-SHEPARD PRODUCTS, INC., 1016 Walnut St., Watertown, Mass.

Carts (hand, push, other), Cranes (hand power), Jacks (hydraulic), Racks (pallet, storage, other), Stackers (portable electric, portable hand), Trucks (bag, barrel, drum, box type, die handling, elevating or lifting, factory and warehouse, electric fork, hand, motorized hand, industrial, hand lift, hand-electric lift, hand-mechanical lift, hydraulic lift, power-driven lift, packing house, pallet, paper roll, sheet handling, skid handling, straddle, electric tiering, other), Wheels (general industrial, hand truck, rubber tired, tractor, trailer).

Representatives

Ariz., Phoenix—L. J. Clarke, 18 E. Lincoln St. AL 4-1754
Ariz., Tucson—Lyman J. Clarke, 2625 No. First Ave. Phone 4-6233
Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif., San Francisco—Howard Burt & Sons, 505 Standish St. EM 8-2806
Colo., Denver—Raymond J. Purinton, 1754 Blake St. AL 5-8452
Ore., Portland—Liftruck & Equipment Co., 2121 N.W. Thurman St. CA 8-4508
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second So. St. Phone 9-2171
Wash., Seattle—Liftruck & Equipment Co., 558 First Ave., So. MU 6336

LIFT TRUCKS, INC., 2425 Spring Grove Ave., Cincinnati 14, Ohio

Tractors (electric, warehouse), Trucks (electric fork, industrial, motorized hand, hand lift, hand-electric lift, hand mechanical lift, hydraulic lift, power-driven lift, pallet, skid handling, straddle, electric tiering).

Representatives

Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza. AN 9-0567
Calif., San Francisco—Esco Equipment Co., 20 So. Park
Colo., Denver—Plant Equipment Co., 1863 Wazee St. AL 5413
Utah, Salt Lake City—Lang Co., P. O. Box 479. Phone 3-5831
Wash., Seattle—Burleigh Co., 5245 Pullman FL 5245

THE LINCOLN ELECTRIC CO., 22801 St. Clair Ave., Cleveland 17, Ohio

Battery Chargers.

Branch Offices

Ariz., Phoenix—135 E. Rose Lane. OR 4-4954
Calif., Emeryville—1303 Stanford Ave. OL 5-6126
Calif., Los Angeles—2661 So. Yates Ave. RA 3-7281
Colo., Denver—1224 Walnut St. AC 2-9533
Ore., Portland—1034 N.E. Russet St. BU 9-8881

Representatives

N. Mex., Albuquerque—Big Three Welding Supply Co., 4318 Second St. N.W. Phone 4-1644
Mont., Billings—Great Northern Tool & Supply, 2224 Minnesota. Phone 2-2175
Utah, Salt Lake City—Industrial Supply Co., 121 Social Hall. Phone 3-6727

LINCOLN ENGINEERING CO., DIV. OF THE McNEIL MACHINE & ENGINEERING CO., 4010 Goodfellow Blvd., St. Louis 20, Mo.

Pumps (heavy material handling).

Branch Offices

Calif., Berkeley—3033 San Pablo Ave. AS 3-6726
Calif., Los Angeles—2844 So. Grand Ave. RI 8-0151
Ore., Portland—1018 S.E. Eighth St. BE 4-7469

Representatives

Ariz., Mesa—Bauer's Parts & Equipment Co., 221 W. Main St.
Ariz., Phoenix—Colyear Motor Sales Co., 338 W. Adams St.
Ariz., Stafford—Motor Supply Co., 725 Fifth St.
Ariz., Tucson—Motor Supply Co., 140 So. Sixth
Calif., Anaheim—Smirl Supply Co., 11031 Hwy. 101
Calif., Bakersfield—Bloxom & Co., 514 E. 18th
Calif., Bakersfield—Frazier Wright, 2530 Chester Ave.
Calif., Burbank—Jet-Lube, Inc., 3093 No. California St.
Calif., Concord—Gil's Hardware, 1835 Colfax
Calif., Corcoran—Sawtelle & Rosprim, North & Otis Sts.
Calif., Delano—George F. Haddican, High St.
Calif., El Centro—W. H. Douthitt Steel & Supply Co., Rt. No. 1
Calif., Eureka—Humboldt Supply Co., 2029 Broadway

Calif., Fresno—Allied Equipment Co., 1824 Santa Clara
Calif., Fresno—Gordon Equipment Co., 2309 Los Angeles St.
Calif., Fresno—Rol-Pak Filter Service Co., 3063 Church St.
Calif., Glendale—Air Associates, Inc., 1231 Airway Dr.
Calif., Glendale—Allube Corp., 928 Allen Ave.
Calif., Lompoc—Hobbs Bros., 136 No. "H" St.
Calif., Long Beach—Johnson Testers, Inc., 5885 Paramount Blvd.
Calif., Los Angeles—Bevis Machine Co., 406 So. Main St.
Calif., Los Angeles—Brent Diesel Filter Service, 440 Seaton St.
Calif., Los Angeles—Carburetor Electrical Service, 1904 E. Seventh St.
Calif., Los Angeles—Degen-Fiege Co., 4559 W. Sheila St.
Calif., Los Angeles—Frazier-Wright Co., 2331 So. Hill St.
Calif., Los Angeles—Garlinghouse Brothers, 2415 E. Washington Blvd.
Calif., Los Angeles—The Hubbard Co., 5041 Santa Fe Ave.
Calif., Los Angeles—Larson Equipment Co., 2421 E. 57th St.
Calif., Los Angeles—Marshall Tool & Supply Corp., 2850 E. Olympic Blvd.
Calif., Los Angeles—The Republic Supply Co. of Calif., 2600 So. Eastland Ave.
Calif., Los Angeles—Leo M. Shanahan Co., 4274 So. Hoover.
Calif., Los Angeles—Shaw Sales & Service, 5100 Anaheim-Telegraph
Calif., Los Angeles—A. Shelbourne Co., 739 Ceres Ave.
Calif., Los Angeles—Spray Equipment Co., 2222 E. Washington Blvd.
Calif., Los Angeles—United Equipment & Supply, 1859 Riverside
Calif., Los Angeles—Warren & Bailey Co., 3528 So. Garfield
Calif., Los Gatos—C.S.D. Co., 123 Greenhill
Calif., North Hollywood—B & T Industrial Supply, 18008 Sherman Way
Calif., North Hollywood—D. Markoff Assoc., 4421 Ponca Ave.
Calif., Oakland—Bearing Specialty Co., 2424 Webster St.
Calif., Oakland—Forse-Glatt Western Sales Co., 4148 MacArthur Blvd.
Calif., Oakland—Pacific Tool & Supply Co., 251 Eighth St.
Calif., Oakland—Viking Supply Co., 4545 Oakport St.
Calif., Oxnard—Coast Tools, Inc., 749 So. Oxnard Blvd.
Calif., Oxnard—Maulhart Equipment Co., 815 No. Oxnard Blvd.
Calif., Pomona—Reliable Bearing & Supply Co., 777 E. 2nd St.
Calif., Richmond—Tieslau Co., 900 Hoffman
Calif., Sacramento—Gerlinger Motor Parts, 2020 "K" St.
Calif., Sacramento—Knapp Industrial Service Co., 515 12th St.
Calif., Salinas—Farmers Mercantile Co.
Calif., San Bernardino—Reliable Bearing & Supply Co., 263 So. "E" St.
Calif., San Diego—Construction Machinery Co., 2175 Newton Ave.
Calif., San Diego—Minute Mower Service, 737 West St.
Calif., San Diego—Oil Filter Service Co., 2405 E. Harbor Dr.
Calif., San Francisco—Baker-Hamilton, 700 Seventh St.
Calif., San Francisco—Bearing Specialty Co., 128 Texas
Calif., San Francisco—Coast Equipment Co., 444 Eighth St.
Calif., San Francisco—Industrial Hose Supply Co., 154 8th St.
Calif., San Francisco—C. W. Marwedel, 1235 Mission St.
Calif., San Francisco—Pauli & Griffin Co., 509 Sixth St.
Calif., San Francisco—Wait Motor Supply Co., 234 Seventh St.
Calif., San Jose—Ward Farnsworth, 383 No. 17th St.
Calif., San Leandro—K & H Sales, 1800 Williams St.
Calif., San Leandro—The Republic Supply Co., 1919 Williams St.
Calif., Stockton—Hickinbotham Bros., Ltd., 536 So. Aurora St.
Calif., Stockton—Industrial Parts Supply Co., 3900 No. 99 Hwy.
Calif., Torrance—National Supply Co.
Calif., Vernon—Gorman & Co., 5420 So. Santa Fe
Calif., Watsonville—Farmers Mercantile Co.
Colo., Denver—The Mine & Smelter Supply Co., 1422 17th St.
Colo., Denver—Plant Equipment Co., 1400 Market St.
Idaho, Boise—Intermountain Equipment Co.
Idaho, Pocatello—Intermountain Equipment Co., 210 No. Fourth Ave.
Nev., Fallon—Motor Supply Co., 222 Center St.
N. Mex., Albuquerque—McCaffery-Way Materials & Supply, Inc., 1800 Third St. N.W.
N. Mex., Albuquerque—Winter-Weiss Co. of New Mexico, 6130 Second St. N.W.
N. Mex., Carlsbad—Car Parts Depot, Inc.
Ore., Corvallis—Mater Machine Works, 520 So. First St.
Ore., Eugene—Oregon Supply Co.
Ore., Klamath Falls—Fred E. Barnett Co.
Ore., Portland—W. J. Burke & Co., 2344 N.W. 21st Ave.
Ore., Portland—Davis Industrial Products Co., 338 N.W. Sixth Ave.
Ore., Portland—General Rubber & Supply Co., 2258 N.W. Raleigh
Ore., Portland—Goodyear Rubber & Asbestos Co., 205 N.W. Fifth Ave.
Ore., Portland—Oil Filter Service Co., 615 S.E. Market St.
Ore., Portland—Woodbury & Co., 585 No. Lagoon, Swan Island
Ore., Roseburg—Davis Industrial Product Co.
Ore., Salem—Stevens Equipment Co., 110 Division St.
Utah, Salt Lake City—Oscar E. Chytraus Co., 987 S.W. Temple St.
Utah, Salt Lake City—Motor Mercantile Co., 126 S.W. Temple
Wash., Ephrata—Intermountain Equipment Co., 1220 "B" St. S.W.
Wash., Pasco—Intermountain Equipment Co.
Wash., Seattle—Campbell Industrial Supply Co., 3433 Airport Way at Spokane
Wash., Seattle—Oil Filter Service Co., Inc., 1019 Westlake, No.
Wash., Seattle—Steam Supply & Rubber Co., 123 Jackson St.
Wash., Seattle—Yukon Equipment, Inc., 327 Colman Bldg.
Wash., Spokane—American Machine Co., W. 1026 Broadway
Wash., Spokane—Intermountain Equipment Co., E. 611 Sprague Ave.
Wash., Spokane—A. G. Mohn Co., E. 102 Sprague Ave.
Wash., Spokane—Motor Supply Co., W. 1202 First Ave.
Wash., Spokane—Oil Filter Service Co., Inc., 3720 E. Trent St.
Wash., Tacoma—Oil Filter Service Co., Inc., 1216 Tacoma Ave., So.

LINK-BELT CO., Prudential Plaza, Chicago 1, Ill. RA 6-7790

Bearings (ball, roller, babbitted), Belting (chain link, conveyor, elevator), Storage bins and gates, Chains (malleable, Promal, steel, silent, roller), Sprockets, Clutches (friction), Conveyors (apron, automatic, bag, bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, overhead, oscillating, pallet, screw, slat, trolley, truck-tow, vertical, vibrating, special and other), Dumpers, Unloaders (railroad car, trucks), Elevators (barrel, packages, belt, bucket, continuous screw, vertical, helical, parallel-shaft, worm, motorized), Gear-motors, Moto-gears, Hoists (skip), Ice crushers, Ice slingers, Jetstingers (for bulk materials), Pullers and Spotters (car), Pulleys (conveyor, power transmission), Rollers (conveyors), Scoops (power unloading), Speed reducers, Tables (conveying elevating), Trolleys, Variable speed drives, Vibrating screens, Wheels (conveyor, sprocket), Winches, Windlasses.

Western Plants, Branch Stores and District Offices

Calif., Montebello—1200 Sycamore St. RA 3-9341

See advertisement on page 67

Calif., San Francisco—400 Paul Ave. JU 7-6400
Colo., Denver—Schloss & Shubart, 1626 Wazee St. AC 2-2741
Ore., Portland—3030 N. W. Industrial St. CA 6-2601
Utah, Salt Lake City—108 So. Fourth W. St. DA 2-2539
Wash., Seattle—3405 Sixth Ave. So. SE 8200
Wash., Spokane—No. 1303 Washington St. FA 8-5820

Distributors

Ariz., Phoenix—Thunderbird Sales Corp., 2255 W. McDowell. AL 4-8874
Ariz., Prescott—Arizona Mining Supply Corp., P. O. Box 110. Phone 310-311
Calif., Bakersfield—California Truck & Industrial Equipment Co., 2801 Brundage Lane. FA 5-5914
Calif., Colton—Valley Industrial Supply Co., 401 So. Eighth St. TA 5-4342
Calif., El Centro—Valley Auto Supply, 633 State St. EL 2-3391
Calif., Eureka—Fred E. Barnett Co., Broadway and Harris Sts. Phone 2-3791
Calif., Fresno—Bearings Supply Co., 2933 Hamilton Ave. AD 3-7144
Calif., Long Beach—Barnes & Delaney, 2600 Atlantic Ave. (from Long Beach GA 4-1601—from Los Angeles, NE 6-1785)
Calif., Los Angeles—General Bearings Co. 2017 Santa Fe Ave. TR 2338
Calif., Modesto—Geiger Iron Works, Grand and Willow. LA 3-8387
Calif., Monterey—Sweet Service Co., 534 Washington St. Phone 5-4119
Calif., Oakland—American Ball & Roller Bearing Co., 273 26th St. HI 4-8892
Calif., Oakland—Hoffmeyer Belting & Supply Co., 541 E. Eighth St. TE 4-8636
Calif., Ontario—Valley Industrial Supply Co., Inc., 1170 Holt Blvd. YU 6-3827
Calif., Redding—Cascade Industrial Supply, Inc., Hwy. 99 So. Phone 1195
Calif., Sacramento—Geiger Iron Works, 2425 24th St. GL 1-7214
Calif., San Diego—Gould Hardware & Machinery Co., 2212 Main St. BE 2-6174
Calif., San Francisco — Weeks-Howe-Emerson Co., 750 Harrison St. SU 1-3662
Calif., San Jose—Orchard Supply Hardware, Industrial Div., 720 W. San Carlos St. CY 2-6282
Calif., Santa Cruz—Sweet Service Co., 504 Front St. GA 3-5697
Calif., Stockton—Geiger Iron Works, Scotts Ave. and Pilgrim St. HO 6-8623
Calif., Ukiah—Fred E. Barnett Co., No. Highway 101 HO 2-6554
Calif., Van Nuys—So-Cal. Equipment & Supply Co., 7227 Van Nuys Blvd. ST. 5-5431, ST 3-2760
Calif., Watsonville—Sweet Service Co., 38 Alexander St. Phone 4-4775
Idaho, Boise—Western Bearings, Inc., 520 Front St. Phone 2-6583
Idaho, Parma—Transmission Products (Div. Parma Water Lifter Co.) Phone 2-2611
Idaho, Pocatello—Western Bearings, Inc., 156 So. Third St. Phone 3518
Idaho, Twin Falls—Western Bearings, Inc., 223 Fourth Ave. W. Phone 4208
Mont., Missoula—Missoula Mercantile Co., 1600 Harker. Phone 9-4147
Nevada, Reno—Sierra Industrial Co., Inc., 307 Morrill Ave. FA 3-1301
N. Mex., Albuquerque—Montezuma Bearing Co., 1413 First St. N.W. CH 7-0223
N. Mex., Farmington—Vance Supply Co.
N. Mex., Hobbs—Vance Supply Co., 211 So. Grimes St. EX 3-4416
Ore., Coos Bay—Coos Bay Supply Co., 1023 So. Broadway CO 7-4111
Ore., Eugene—American Steel & Supply Co., 51 E. Seventh St. Phone 5-0373
Ore., Klamath Falls—Fred E. Barnett Co. of Ore., 600 Spring St. TU 4-5153
Ore., Medford—American Steel & Supply Medford Inc., 703 So. Grape St. ME 2-7181
Ore., Pendleton—A. W. Davis Supply Co., P. O. Box 676. Phone 761
Ore., Portland—Brezee Supply Co., 237 S.W. Front Ave. CA 7-5447
Ore., Portland—Power Transmission Products, 1107 N.W. 14th Ave. CA 7-1271
Ore., Roseburg—Douglas Supply Co., 649 N.E. Rose St. OR 3-6638
Ore., Salem—Stevens Equipment Co., 110 Division St. EM 4-2281
Utah, Price—H & J Supply Co., 540 So. Third W. St. ME 7-0600
Utah, Salt Lake City—Industrial Supply Co., Inc. 121-135 Social Hall Ave. EM 3-6727
Wash., Aberdeen—Grays Harbor Equipment Co., 419 So. F St. Phones 331, 397
Wash., Everett—Everett Trans. & Rubber Co., 1106 Hewitt Ave. BA 6767 or 1505
Wash., Hoquiam—Lamb-Grays Harbor Co., Inc., Blaine and Firman Sts. Phone 1000
Wash., Seattle—Bearing Engineering & Supply Co., 65 Horton St. MA 2744
Wash., Spokane—Carter-Miller Mill Furnishing Co., No. 1320 Ash St. FA 7-6624
Wash., Walla Walla—Drumheller Co., 1 W. Alder St. JA 5-4880
Wash., Wenatchee—Wells & Wade, Inc., 201-215 So. Wenatchee Ave. NO 2-7173
Wash., Yakima—Central Chain & Transmission Co., Inc., 709 So. First St. GL 7-6188

LIPPMANN ENGINEERING WORKS, INC., 4603 W. Mitchell St., Milwaukee 14, Wis.

Bins, Conveyors (apron, bag and bale, belt, bucket, flight, foundry, gravity roller, live roller, overhead, pallet, portable, screw, skate, slat), Elevators (bucket), Loaders (portable, self-propelled), Pulleys (conveyor), Rollers (conveyer).

Representatives

Ariz., Phoenix—Western Machinery Co., 820 No. 17th St.
Calif., Los Angeles—Larson Equipment Co., 2421 E. 57th St. LU 5-1181
Calif., San Francisco—Coast Equipment Co., 444 Eighth St.
Idaho, Idaho Falls—Southern Idaho Equipment Co., 2055 W. Yellowstone Hwy.

Utah, Salt Lake City—Lang Construction Co., First South and Second West. DA 8-8341
Wash., Seattle—Hulse Machinery Co., Inc., 3300 Fourth Ave. So.
Wyo., Casper—Moss Equipment & Supplies. P. O. Box 1727

LITTLE GIANT PRODUCTS, INC., 1530-50 N.E. Adams St., Peoria 3, Ill.
Winches.
Representative
Calif., Los Angeles—C. M. Heyer Co., 2343 Saybrook. RA 3-1819

LONGVIEW FIBRE CO., Longview, Wash.
Corrugated and fibre boxes.
Branches
Calif., Los Angeles—4955 Maywood Ave.
Calif., Fresno—925 No. Fulton St.
Calif., Oakland—8511 Blaine St.
Calif., San Francisco—1 Montgomery St.
Ore., Portland—U. S. National Bank Bldg.
Wash., Seattle—5901 E. Marginal Way
Wash., Yakima—Holtzinger Bldg.

LOUDEN MACHINERY CO., 607 W. Broadway, Fairfield, Ia.
Conveyors (overhead), Cranes (gantry, jib, pillar, swing, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power overhead, I beam overhead, monorail overhead), Hoists (monorail).

See adv. outside back cover

Representatives
Calif., Los Angeles—Alden Equipment Co., 47666 Wagner Station. FA 1-0360
Calif., San Francisco—Acme Equipment Co., 840 Harrison St. EX 2-1560
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5-5411
Ore., Portland—Hallidie Machinery Co., 1915 N.E. Union. AT 2-2244
Utah, Salt Lake City—Utility Engineers, Inc., 630 Dooly Bldg. Phone 3-4682
Wash., Seattle—Hallidie Machinery Co., Inc., 210 Hudson St. LA 9520
Wash., Spokane—Hallidie Machinery Co., Inc., 2518 No. Division. EM 7131

LUDLOW PAPERS, INC., P. O. Box 135, Needham Hts. 94, Mass.
Industrial tapes and wrapping papers.
Branches
Calif., Los Angeles—4903 Everett Ave. LU 8-8526
Calif., San Francisco—1485 Bayshore Blvd. JU 6-4070

LUFKIN FOUNDRY & MACHINE CO., Lufkin, Tex.
Herringbone gear reducers, High speed increasers (herringbone or double helical).

See adv. inside front cover

Branch Offices
Calif., Bakersfield—30th and M Sts. FA 7-8564
Calif., Los Angeles—5959 So. Alameda. LU 5-1201
Colo., Denver—1423 Mile High Center. AL 5-1616
Mont., Sidney—P. O. Box 551. Phone 861
N. Mex., Hobbs—P. O. Box 104. EX 3-5211
Wyo., Casper—P. O. Box 1849. Phone 3-4670
Representative
Ore., Portland—J. W. Minder Chain & Gear Co., 307 S.E. Hawthorne Blvd. BE 6-1131

LYON METAL PRODUCTS, INC., 40 Monroe Ave., Aurora, Ill.
Steel shelving, Racks, Bins, Lockers, Cabinets, Shop equipment.
Branches
Ariz., Phoenix—5545 No. Kay Dr. AL 8-8511
Calif., Los Angeles—3650 Union Pacific Ave. AN 9-8161
Calif., San Francisco—P. O. Box 3096, Rincon Annex. SU 1-5490
Colo., Denver—2142 Welton St. AC 2-4861
Ore., Portland—P. O. Box 3797. CA 8-2713
Utah, Salt Lake City—P. O. Box 30, Sugar House Sta. CR 8-8734
Wash., Seattle—1755 Utah Ave. MU 0383

MACWHYTE WIRE ROPE CO., 2979 14th Ave., Kenosha, Wis.
Internally lubricated preformed wire rope, Braided wire rope slings, Aircraft cable and assemblies, Monel metal, stainless steel wire rope and wire rope assemblies.
Branches
Calif., Los Angeles—2035 Sacramento St. TR 8383
Calif., San Francisco—188 King St. EX 2-4966
Ore., Portland—1603 N.W. 14th Ave. CA 7-1661
Wash., Seattle—87 Holgate St. MA 1715

MAGLINE, INC., 1930 Mercer St., Pinconning, Mich.
Magliner magnesium deckboards, Mobile loading ramps, Delivery truck ramps, Pallet dollies, Barrel skids, Conveyors, Two- and four-wheel trucks, Magna-Lum T-L plates.
Representatives
Ariz., Phoenix—Kistler Industrial Service, 902 So. Central Ave. AL 8-7196
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Calif., Los Angeles—Colson Equip. & Supply Co., 1317 Willow St. TR 5743
Calif., Los Angeles—Yale & Towne Mfg. Co., 5711 Olympic Blvd. RA 3-9761
Calif., San Diego—Southland Lift Trucks, 7029 Fairmount Ext. AT 1-3993
Calif., San Diego—Winn Supply Co., 256 Seventh Ave. BE 3-3106
Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5-5411, -2, -3, -4.
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Utah, Ogden—Horsley Co., 2416 Grant Ave. Phone 2-1847
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. EM 3-9074
Wash., Seattle—Air-Mac Inc., 3838 Fourth Ave. So. MU 3388
Wash., Spokane—Air-Mac, Inc., E. 3710 Trent Ave. KE 5-2005
Wash., Yakima—Air-Mac, Inc., 313 No. Grandview. GL 2-1552

MAGNESIUM COMPANY OF AMERICA, 5222 Indianapolis Blvd., East Chicago 17, Ind.
Carts (hand and push), Casters, Duck boards, Platforms (loading), Ramps (loading), Trucks (bag, barrel, drum, box, dolly, hand, pallet).
Representatives
Ariz., Phoenix—L. J. Clarke & Co., 114 E. Roosevelt St. AL 4-1754
Ariz., Tucson—L. J. Clarke & Co., 2625 No. First Ave. MA 4-6233
Calif., Fresno—All Bearing Sales & Service Co., 602 Fulton St. AD 7-7416
Calif., Los Angeles—Yaeger & Sons, 1512 E. Olympic Blvd. TR 3576
Calif., Redondo Beach—M. R. Simms, 412 Calle Mayor. OR 8-0168
Calif., San Diego—Storage Rack Systems, 3948 Utah St. CY 8-6104
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827
Colo., Thornton—Richard Hajek, 1400 Ruth Dr. AT 7-5255
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave. CA 8-2321
Utah, Salt Lake City—Materials Handling Engineers, 334 W. 17th So. IN 7-4871
Wash., Seattle—Materson's Equipment Supplies, Inc., 2720 Westlake, No. GA 0245

MANHATTAN RUBBER DIV. see **RAYBESTOS - MANHATTAN, INC., MANHATTAN RUBBER DIV.**

MANNING, MAXWELL & MOORE, INC., SHAW-BOX CRANE & HOIST DIV., Muskegon, Mich.
Cranes (charging and drawing, gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, hand power traveling overhead, I beam overhead), Hoists, (chain, crane, derrick, drum, electric, hand, monorail, portable, traveling, air, hydraulic), Scales (portable), Slings (chain).
Branch
Calif., San Francisco—1295 Folsom St. UN 1-3870

MARION METAL PRODUCTS CO., Cheney Ave., Marion, Ohio
Dump bodies and hoists (motor truck), Elevating tailgate (truck).
Representatives
Ariz., Phoenix—J. H. Holan Corp., 302 E. Pima St. AL 3-4153
Ariz., Tucson—Bogard GMC Co., 2626 So. Fourth Ave. Phone 3-5438
Calif., Fresno—Ruckstell California Sales Co., 410 Broadway. Phone 6-4296
Calif., Los Angeles—Truck Bodies Co., 2865 E. 26th St. AN 2-2184
Calif., Oakland—Ruckstell California Sales Co., 2985 Ford St. KE 3-2541
Colo., Denver—Woeber Auto Body & Mfg. Co., 4950 Jackson St. FL 5-2366
Ore., Portland—Pacific Body Builders, Inc., 1812 N.E. Grand. TR 1128
Wash., Seattle—Washington Truck Equipment, 3626 Airport Way. RI 7-1088
Wash., Spokane—Alloy Mfg. Co., Route 1. MA 8675

MARION POWER SHOVEL CO., 617 W. Center St., Marion, Ohio
Cranes (yard, truck tractor), Shovels (diesel, electric, crawler mounted).
Branch Offices
Ariz., Phoenix—1017 No. 22nd Ave. AL 2-5371
Calif., South San Francisco—326 Shaw Rd. PL 6-3155
Ore., Portland—2651 S.W. Sherwood Pl. CA 3-2221
Representatives
Ariz., Phoenix—State Tractor & Equipment Co., 407 So. 17th Ave. AL 2-1731
Ariz., Tucson—State Tractor & Equipment Co., 1202 No. Main St. Phone 4-2335
Calif., Fresno—Geo. M. Philpott Co., Inc., 2376 So. Railroad Ave. Phone 6-9843
Calif., La Puente—Kyle Equip. Co., 125 No. Vineland. ED 6-4581
Calif., Oakland—Geo. M. Philpott Co., Inc., 2928 Poplar St. GL 2-0458
Calif., Sacramento—Geo. M. Philpott Co., Inc., 6260 Folsom Blvd. GL 2-2641
Calif., San Diego—Kyle Equip. Co., 5910 Mission Gorge Rd. AT 3-2368
Calif., San Francisco—Geo. M. Philpott Co., Inc., 1060 Bryant St. HE 1-5475
Colo., Denver—Western Machinery Co., 2400 W. Seventh Ave. TA 5-7151
Colo., Grand Junction—Western Machinery Co.
Ore., Eugene—Western Equipment Co., 1360 W. First Ave. EU 4-4265
Ore., Portland—Western Equipment Co., 2244 N.W. Savier St. CA 8-4128

MARLOW PUMPS, DIV. OF BELL & GOSSETT CO., P. O. Box 200, Midland Park, N. J.
Pumps (liquid handling).
Representative
Distributors located in all major Western cities.

MARTIN BROS. CONTAINER & TIMBER PRODUCTS CORP., THE, 39 Blucher St., Toledo, Ohio
Wirebound shipping containers and wood boxes.
Branches
Calif., San Francisco—100 Bush St. SU 1-2263
Calif., Whittier—P. O. Box 509. OX 3-7745
Ore., Oakland—P. O. Box 598. Phone 2211

MARTIN - DECKER CORP., 3431 Cherry Ave., Long Beach 7, Calif. NE 6-2577
Industrial weighing, load measurement and recording instruments.
Representatives
Calif., Los Angeles—Hodson Scale Co., 5712½ E. Beverly Blvd.
Calif., Los Angeles—Hoist Specialties, Inc., 429 So. Western Ave. DU 8-2463
Calif., Oakland—Robert H. Griffin Co., 600 16th
Calif., San Francisco—T. R. Mantes Co., 236 Fremont St.
Colo., Denver—Joe Coursey Equip. Co., 1243 Walnut St.
Ore., Portland—Air-Mac, Inc., of Oregon, 1111 S.E. Grand Ave. BE 4-6524
Ore., Portland—Pacific Scale Co., 2201 S.E. Powell Blvd.
Wash., Seattle—Industrial Products Co., 2911 First Ave. So.

MASONITE CORP., 111 W. Washington St., Chicago 2, Ill.
Bins, Boxes (tote), Chutes, Pallets, Partitions, Tables (conveying, elevating), Workbench Tops.
Branches
Calif., Los Angeles—1577 Rio Vista. AN 3-7163
Calif., San Francisco, 111 Sutter St., YU 6-3696

Representatives
Calif., Pasadena—J. P. Tartaglione, 940 Hastings Ranch Dr., CU 5-2520
Calif., Pedro Valley—A. J. Rieden, Sea Cliff. EL 9-0867
Calif., Whittier—R. Greenshields, 1244 E. Mar Vista St. OX 3-3809
Wash., Bellevue—J. J. O'Brien, 10808 S. E. 25th Pl. GI 4681

MATHEWS CONVEYER CO., WEST COAST, 901 County Rd., San Carlos, Calif.
Belting (conveyor), Conveyors (apron, automatic, bag and bale, belts, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, skate, slat, trolley, vertical, special), Elevators (barrel, package), Pallet loaders, Rollers (conveyor), Tables (conveying) Trolley, Trucks (dolly), Wheels (conveyor).

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Branch Office
Calif., Los Angeles—5527 Sunset Blvd. HO 9-1673
Representatives
Colo., Denver—Hack Engineering Co., 124 Wazee Market. TA 5-5248
Ore., Portland—A. A. Schuler Co., 1128 S.W. Market St. CA 3-7901
Utah, Salt Lake City—Industrial Supply Co., 131 Social Hall Ave. EM 3-6727
Wash., Seattle—H. W. Wylie Co., 2615 Western Ave. SE 6177

MAXI CORP., 900 Turnbull Canyon Rd., La Puente, Calif.
Crane carriers (self-propelled).
Representatives
(No authorized dealers—sold through all equipment dealers and distributors who handle a crane and shovel account)

MAY-FRAN ENGINEERING, INC., 1728 Clarkstone Road, Cleveland
Conveyors (hinged steel, flat top hinged steel, fabric belt), Scrap and chip handling conveyors and automatic systems, Little Hustler portable hinged steel or fabric belt conveyors and standard component parts.
Representative
Calif., South Gate—Cost Reduction Equipment Co., 5200 Chakemco St. LO 7-2487

McDERMOTT & GREENE, 1315 E. Second St., Los Angeles, Calif.
Carts, Casters, Skids, Trailers, Trucks (bag, barrel, drum, box type, die handling, dolly, factory and warehouse, hand, packinghouse, paper roll, sheet handling, skid handling), Wheels (hand truck, rubber tired).

McNEIL MACHINE & ENGINEERING CO., see **LINCOLN ENGINEERING CO., A DIV.**

MECHANICAL HANDLING SYSTEMS, INC., 4600 Nancy Ave., Detroit
Conveyors (apron, automatic, bag and bale, belt, bucket, chain or link, continuous flow, drag, flight, foundry, gravity roller, live roller, overhead, pallet, portable, screw, skate, slat, trolley, vertical, special and other), Elevators (barrel, package, belt, bucket, continuous flow), Racks (pallet, storage, other), Wheels (conveyor).
Representative
Calif., Gardena—Alden Equipment Co., 1449 W. Rosecrans. FA 1-0360
Wash., Seattle—Hallidie Machinery Co., Inc., 210 Hudson St. LA 9520

MEFCO SALES & SERVICE CORP., 131 No. Fifth Ave., Arcadia, Calif.
Hydra-Set (precision crane control instrument, stain gauge, crane scale, rigging aid, and portable tensile testing or stressing unit).
Representatives
Calif., Oakland—Ditzen Eng. & Sales Co., 6002 Telegraph Ave. OL 3-8262
Wash., Seattle—Elok Sales Co., 14317 23rd N.E. WA 2018, GI 4155

MERCURY MFG. CO., SUBSIDIARY OF PETTIBONE MULLIKEN CORP., 4700 W. Division St., Chicago 51, Ill. SP 2-9300
Tractors (electric warehouse, gasoline warehouse), Trailers (factory and warehouse), Trucks (dolly, electric fork, hand industrial, electric tiering), Wheels (trailer).
Representatives
Calif., Los Angeles—McKinley Equipment Co., 1557 Esperanza St. AN 9-0567
Calif., San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 6-1789
Colo., Denver—Plant Equipment Co., 1400 Market St. AL 5413

MERRILL BROS., 56-41 Arnold Ave., Maspath, N. Y.
Clamps, Grabs.
Representatives
Calif., Los Angeles—J. A. Batchelor, 3037 E. 12th St.
Calif., Los Angeles—Cable Distributors, Inc., 4903 E. Washington Blvd.
Calif., Los Angeles—Republic Supply Co., 2600 So. Eastland Ave.
Calif., San Francisco—Gilmore Steel & Supply, 821 Folsom St.
Ore., Portland—Woodbury & Co., 133 S.W. Second Ave.
Utah, Salt Lake City—Salt Lake Hardware Co., 105 No. Third W. St.
Wash., Seattle—Stack Steel & Supply Co., 500 Lander St.

METZGAR CONVEYOR CO., 412 Douglas St., N. W., Grand Rapids 4, Mich.
Conveyors (apron, bag, bale, belt, chain or link, gravity roller, live roller, portable, skate, nylon wheel, midget wheel and roller, nylon bearing roller).
Representatives
Calif., Los Angeles—Shipping Room Supply Co., 1547 Estudillo Ave. AN 1-2194
Calif., Oakland—Ed. M. Vallejo Co., 3907 Lyon Ave. KE 2-4564
Calif., San Diego—General Industrial Supply Co., 1115 "F" St.
Ore., Portland—F. E. Bennett Co., 426 N. W. Sixth St. AT 2321
Wash., Seattle—Materials Handling Equipment Co., 2963 First St. SE 0997
Wash., Spokane—Standard Cycle & Supply. 1811 E. Sprague Ave. LA 1321

MID-STATES GUMMED PAPER CO., 6850 So. Harlem Ave., Bedford Park, Argo P. O. Ill.
Tape (gummed, sealing, filament, reinforced).
Branch Office
Calif., Los Angeles—6023 So. Garfield Ave. RA 3-6641
Representatives
Calif., Beverly Hills—Noland Paper Co., Inc., 9268 W. Third St.
Calif., Burbank—De Hater Paper Co., Inc., 640 So. Flower St.
Calif., Burbank—Valley Paper & Chemical Co., Inc., 2706 W. Burbank Blvd.
Calif., Glendale—Yetes Products, 703 W. Ivy St.
Calif., Highland—Richmond Paper Co., Pacific and Church Sts.
Calif., Huntington Park—Tharco Containers, 2519 E. Randolph St.
Calif., Los Angeles 38—Anderson-Winn Paper Co., 1037 No. Orange Dr.
Calif., Los Angeles—Banner Paper & Twine Co., 7421 Avalon Blvd.
Calif., Los Angeles 44—Cal-State Distributors, 646 W. Florence Ave.
Calif., Los Angeles 58—Carpenter Paper Co., 3100 E. 44th St.
Calif., Los Angeles—Container Kraft Carton & Paper Supply Co., 801 E. 61st St.
Calif., Los Angeles 33—Frick Paper Products Co., 1800 Marengo St.
Calif., Los Angeles 23—Gabriel Container Co., 4300 Union Pacific Ave.
Calif., Los Angeles 46—Hollywood Paper Co., 8431 Melrose Pl.
Calif., Los Angeles 21—L. C. Hyman Paper Co., 1855 Industrial St.
Calif., Los Angeles 21—Ideal Paper Co., 1362 E. Wholesale St.
Calif., Los Angeles 26—B. W. Paper Co., 5487 San Fernando Rd. W.
Calif., Los Angeles 22—Ingram Paper Co., 6541 E. Washington Blvd.
Calif., Los Angeles 22—L. A. Supply Co., 2111 So. Atlantic Blvd.
Calif., Los Angeles 47—Metropolitan Paper Co., 1900-24 W. 62nd St.
Calif., Los Angeles 11—The Nehms Co., 3000 So. Central Ave.
Calif., Los Angeles—Package Engineering Co., 735 Decatur St.
Calif., Los Angeles 35—Yarborough Sales Co., 1133 So. La Cienega Blvd.
Calif., Oakland 7—Union Paper Co., 378 Fourth St.
Calif., Pasadena 2—Industrial Sales Co., 9 W. State St.
Calif., Pasadena—Pasadena Paper Products, 2623 E. Foothill Blvd.
Calif., Pomona—Carr Paper Co., 1190 So. Carey Ave.
Calif., Richmond—Eastman Tag & Label Co., 345 Collins Ave.
Calif., Rosemead—San Gabriel Valley Supply Co., 9736 E. Valley Blvd.
Calif., San Diego 12—San Diego Paper Co., India at F St.
Calif., San Francisco 7—Bonestell & Co., 164 Townsend St.
Calif., San Francisco 7—Carpenter Paper Co., 300 Brannan St.
Calif., San Francisco 11—Commercial Paper Corp., 48 Jackson St.
Calif., Santa Ana—Blower Paper Co., 1055 E. First St.
Calif., Santa Cruz—Monterey Bay Paper Co., 2112 Chanticleer Ave.
Calif., Santa Monica—Fleischer Paper Co., 2906-B Colorado Ave.
Calif., South Gate—Menke Marking Device, 4514 Firestone Blvd.
Calif., Van Nuys—Acteson Paper Co., 15124 Oxnard St.
Calif., Visalia—Caskey Paper Co., P. O. Box 147
Ore., Portland 9—Carter, Rice & Co. of Oregon, 735 N.W. 16th St.
Wash., Seattle 1—Carter, Rice & Co., 2905 Third Ave.
Wash., Spokane—Spokane Paper & Stationery Co., 152 So. Jefferson Ave.
Wash., Tacoma 1—Allied Paper Co., 2215 Center St.
Wash., Yakima—Carter, Rice & Co., 514 So. Second Ave.

MID-WEST WIRE PRODUCTS CO., INC., 2555 Fenkell Ave. at Linwood, Detroit 38, Mich.
Baskets (wire material handling "Carryers" and misc. tote bins), Material handling baskets ("Carryers" and tote bins).
Representatives
Calif., Los Angeles 57—Equipment Engineering Services, 672 So. Lafayette Park Pl. DU 7-8521
Colo., Denver 9—C.F.L. Co., 375 So. Pearl St. SP 7-4381
Colo., Denver 10—Urban M. Lodge, 2689 So. Jackson St. AL 5-6127

MILWAUKEE TRUCK CO., 250 No. 12th St., Milwaukee 3, Wis.
Trucks (dolly, factory and warehouse, hand).
Representatives
Calif., San Francisco 22—Phil Payton, 1790 34th St. MO 4-5066
Calif., Santa Fe Springs—James Boal, 11725 Clarkman Ave. TO 3-0960
Hawaii, Honolulu—Alexander Assoc., 1272-A. So. King St.
Utah, Salt Lake City—J. H. Nicodemus, 230 So. 4th St. W. EM 3-5587
Wash., Seattle 1—Wm. A. Matzke, Terminal Sales Bldg. SE 4257

MISSILE-AIRCRAFT GROUND EQUIPMENT SUPPLY CO., 7340 Radford Ave., North Hollywood, Calif.
United Caravan running gear, Portapal pallet trucks, Industrial pneumatic tires, Presto hydraulic lifts, Multiton roller skids, Durable rubber dock bumpers, Faultless casters.

MITCHELL INDUSTRIAL TIRE CO., INC., 1400 E. 40th St. (P. O. Box 468), Chattanooga, Tenn.
Tires, laminated (industrial truck and trailer).
Representative
Calif., Gardena—Mitco Ind. Tire Co., 13204 Crenshaw Blvd. FA 1-0740

M-H STANDARD CORP., 517 Commonipaw Ave., Jersey City 4, N. J.
Conveyors (apron, automatic, belt, bucket, chain or link, drag, flight, live roller, overhead, portable, screw, slat), Elevators (belt, bucket), Racks (pallet, storage, gravity storage), Tables (conveying).
Representatives
Calif., Los Angeles—Western Material Handling Corp., 7810 Salt Lake Ave.
Calif., San Francisco—Western Industrial Equipment Co., 420 Market

Colo., Denver—King & East Machinery Co., 2390 So. Delaware St.
Ore., Portland—Charles Ind. Sales Co., 5201 First Ave. So.

MOBILE SWEEPER DIV., see **CONVEYOR CO.**

MOFFETT ENGINEERING CO., 579 Cleveland Ave., Albany 6, Calif. LA 5-4916

Cranes (gantry, hand power, jib, pillar, swing, double boom overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, 1 beam overhead), Hoists (air, bucket, chain, crane, derrick, drum, electric, hand, monorail, portable, skip, tracking, other), Loaders,

MONARCH RUBBER CO., 50 Lincoln Park, Hartville, Ohio

Tires.

See advertisement on page 3

Branch

Calif., San Jose—1045 No. 10th St.

Representatives

Ariz., Phoenix—Naumann Lift Trucks, Inc., 2308 So. 11th Ave.
Calif., Fresno—Graylift, Inc., 1905 Mary St.
Calif., Los Angeles—Robert H. Braun Co., 5519 Jillson
Calif., Modesto—Lift Truck Service & Rental, 319 Grand
Calif., Sacramento—J. R. Rolfe Co., 3200 "J" St.
Calif., San Diego—Robert H. Braun Co., 2208 Imperial
Calif., San Jose—Harold Johnson, 211 No. Montgomery
Ore., Portland—Robert Dodd Co., 5210 S.W. Corbett
Utah, Salt Lake City—Foulger Equipment Co., 1361 So. Second, W.
Wash., Seattle—Preston Faller Co., 1921 Minor Ave.
Wash., Spokane—Liftco, Inc., E. 4324 Trent
Wash., Yakima—Preston Faller Co., 108 So. Fourth Ave.

MORRIS, STANLEY E., CO., 5584 Alhambra Ave., Los Angeles 32, Calif.

Specialists in component parts of materials handling systems, such as industrial casters, hand and electric hoists, slings, grabs, special accessories and listing units.

Representatives

Ariz., Phoenix—Vetcoa Supply Corp., 710 So. 35th Ave. AP 8-3581
Calif., San Diego—S. W. Bowser Co., 520 E St. BE 9-2791

MORSE CHAIN CO., Ithaca, N. Y.

Timing belt drives, Chains, Clutches, Couplings, Speed reducers.

Branches

Calif., Los Angeles—607 So. Hill St. VA 0262
Colo., Denver—1408 W. Colfax Ave. AL 5-8609

Representatives

Ariz., Phoenix—Edward D. Maltby Co., Inc., 424 W. Jefferson St. AL 4-9227
Calif., Long Beach—Edward D. Maltby Co., Inc., 2041 W. Anaheim. HE 7-4541
Calif., Los Angeles—Edward D. Maltby Co., Inc., 1718 So. Flower. RI 7-9191
Calif., Los Angeles—J. W. Minder Chain & Gear Co., 6011 So. Central Ave. AD 3-7221
Calif., Maywood—Edward D. Maltby Co., Inc., 4035 E. 52nd St. LO 2-5304
Calif., San Diego—Edward D. Maltby Co., Inc., 745 15th St. BE 3-7278
Calif., San Francisco—Adam-Hill Co., Utah Ave. & Corey Way. PL 5-3935; JU 3-8755
Ore., Portland—J. W. Minder Chain & Gear Co., 307 S.E. Hawthorne Blvd. EM 1131
Ore., Portland—Power Transmission Products, 1107 N.W. 14th Ave. CA 7-1271

MOTO-TRUC CO., THE, 1953 E. 59th St., Cleveland 3, Ohio

Complete line of battery-powered walkie and small riding type high-lift and low-lift industrial trucks and tractors.

Representatives

Calif., Los Angeles—Glenn A. Harshbarger Co., 588 Mateo St. MI 7491
Calif., San Francisco—Elder & Co., 333 Seventh St. UN 1-5480
Colo., Denver—Landes, Zachary & Peterson Co., 275 Kalamath. MA 3-6203
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens. CA 8-4196
Wash., Seattle—Mechanical Handling Co., 1401 W. Garfield. GA 0200

MULTIPLE CORP., 1908 No. Main St., Dayton 5, Ohio

Multiple achievement tool, Multi-Pul.

Representatives

Calif., Los Angeles—Stanley E. Morris Co., 5584 Alhambra.
Calif., San Francisco—Marshall-Newell Supply Co., 90 Mission St.
Ore., Portland—McMahan Bros., Inc., 204 Fitzpatrick Bldg.
Wash., Seattle—Northern Commercial, 419 Coleman Bldg.
Wash., Spokane—Jensen-Byrd, 314-324 Riverside Ave.

MULTISTAMP CO., 527-29 W. 21st St., Norfolk, Va.

Stencil duplicators, Tag and label printers, Carton and box markers.

Representatives

Ariz., Phoenix—P.B.S.W. Supply & Equip. Co., 530 W. Washington St.
Calif., Los Angeles—O. I. Mattenson, 903 So. Grand Ave. VA 9466
Colo., Denver—Sachs-Lawlor Co., 1543 Larimer St. AL 5-3422
Ore., Portland—Kilhan Stationery & Printing Co., 134 N.W. Eighth Ave.
Utah, Salt Lake City—Mid-West Office Supply, 60 W. Second St. So. EM 4-3527
Wash., Seattle—Puget Sound Stamp Works, 120 Marion St. EL 4566
Wash., Seattle—Seattle Rubber Stamp Co., 912 Third Ave. MA 8420

NALPAK CORP., 1130 E. Florence Ave., Los Angeles 1, Calif.

Two-wheel hand trucks, Four-wheel platform trucks and dollies, Wheels (pneumatic and semi-pneumatic).

Branch Office

Calif., San Francisco—2707 39th Ave., LO 4-7416

Representatives

Ariz., Phoenix—Luna Corp., 447 W. Jefferson
Calif., Alhambra—Geo. M. Prescott Co., 825 So. Fremont. FA 1-2100
Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6606
Calif., Los Angeles—Yaeger & Sons, 1512 E. Olympic Blvd. TR 3576

NASHUA PACKAGE SEALING DIV., NASHUA CORP., 44 Franklin St., Nashua, N. H.

Gummed tape dispensers (electric and manual), Gummed sealing tape (plain, printed, glass reinforced).

Branch Offices

Ariz., Phoenix—M. Markovitz, 523 E. Osborn Rd. AM 5-3451
Calif., Los Angeles—J. E. Ross, 1709 W. Eighth St. DU 5-4189
Calif., Los Angeles—J. W. Valentine, 1709 W. Eighth St. DU 5-4189
Calif., Los Angeles—A. Zakraysek, 1709 W. Eighth St. DU 5-4189
Calif., Los Gatos—R. W. Waller, 16880 Fillmer Ave. EL 4-1019
Calif., Placentia—T. L. Terry, 247 Wilson Ave. LA 8-1570
Calif., San Francisco—J. N. Brigham, 1355 Market St. UN 1-0720
Calif., San Francisco—M. L. Nathan, 1355 Market St. UN 1-0720
Calif., San Francisco—H. L. Rosen, 1355 Market St. UN 1-0720
Colo., Denver—R. DeYoung, 2517 E. 26th Ave. FL 5-4924
Colo., Denver—C. S. Graves, 1280 Humboldt St. KE 4-4593
Ore., Portland—B. E. Chinn, 411 Weatherly Bldg. BE 4-2372
Utah, Salt Lake City—J. W. Fitch, 1579 E. 3900 So. CR 7-6369
Wash., Seattle—M. J. Malmstrom, Suite 101, Jones Bldg. SE 6860

NATIONAL PNEUMATIC CO., INC., see **HOLTZER-CABOT DIV., NATIONAL PNEUMATIC CO., INC.**

NATIONAL SCREW & MFG. CO., see **CHESTER HOIST DIV.**

NATIONAL VULCANIZED FIBRE CO., Maryland Ave. and Beech St., Wilmington, 99, Del.

Kennett materials handling receptacles of vulcanized fibre.

Branch Offices

Calif., Los Angeles—2216 So. Garfield. RA 3-3129
Calif., Palo Alto—535 Middlefield Rd. DA 6-4667

Representatives

Colo., Denver—George Hamburger, 1258 Pearl St.
Wash., Seattle—John J. Witherow, 4001 Whitman Ave. ME 7298

NEW LONDON ENGINEERING CO., 1700 Division St., New London, Wis.

Conveyors (automatic bag and bale, belt, chain or link).

Representatives

Ariz., Phoenix—Lee Redman Equipment Co., 610 So. 19th St.
Ariz., Phoenix—O. S. Stapley Co., 723 Grand Ave.
Ariz., Phoenix—Western Machinery Co., 124 E. Buchanan St.
Calif., Los Angeles—Modern Materials Handling Equipment, 1738 Griffin St. CA 5-0422
Calif., Los Angeles—Irving G. King & Co., 821 Mateo St. TU 3176
Calif., Oakland—Ricker Machinery, 302 Fourth St. TW 3-3690
Calif., Sacramento—Central Equipment Co., 2120 Blumenfeld Ave.
Calif., San Francisco—Rix Co., Inc., 582 Sixth St. UN 1-5026
Colo., Denver—Western Machinery Co., 1004 Speer Blvd.
Colo., Grand Junction—S & M Supply Co., 735 Fourth Ave.
Idaho, Boise—Western Equipment Co.
Nev., Las Vegas—Inland Service & Supply
Ore., Portland—Oregon Handling Equipment, 2949 N.W. St. Helens Rd. CA 8-4196
Ore., Portland—Temco Co., 1225 S.W. Morrison. CA 8-8508
Utah, Salt Lake City—Lund Machinery Co., P. O. Box 1948. EM 3-8828
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second So. St.
Wash., Seattle—Temco Co., 1331 Third Ave. MU 9165
Wash., Spokane—Temco Co., So. 125 Stevens St. MA 4-5288
Wash., Seattle—Glenn Carrington & Co., 91 Columbia St.

NEW YORK AIR BRAKE CO., see **AURORA PUMP DIV., NEW YORK AIR BRAKE CO.**

NEW YORK AIR BRAKE CO., see **KINNEY MANUFACTURING DIV.**

NEW YORK BELTING & PACKING CO., 1 Market St., Passaic, N. J.

Belting (conveyor, elevator, endless, other), Conveyors (belt), Elevators (belt), Slings (belt), Hose (rubber).

Branches

Calif., Los Angeles—4559 E. Sheila St. AN 9-0781
Calif., San Francisco—6025 Third St. MI 8-3424

Representatives

Ariz., Phoenix—Garrett Supply Co., 130 W. Madison Ave. AL 8-5701
Calif., Fresno—Central Supply Co., 426 M St. Phone 5-4765
Calif., Los Angeles—Degen-Fiege Co., 4559 E. Sheila St. AN 9-0781
Calif., Oakland—Viking Supply Co., 1276 W. Grand Ave. HI 4-6984
Colo., Denver—Hendrie & Bolthoff Co., 1635 17th St. KE 4-4111
Ore., Klamath Falls—Moty & Van Dyke, Inc., 638 Klamath Ave. Phone 4141
Ore., Portland—Woodbury & Co., Swan Island. BU 5-4611
Wash., Aberdeen—Mill & Logging Supply Co., 313 So. "H" St. Phone 291

NICHOLS CONVEYOR & ENGINEERING CO., INC., 2646 Downey Rd., Los Angeles 23, Calif. AN 3-3809 and AN 3-7874

Hydraulic baling equip. for cardboard, paper, rags, plastic scrap, non-ferrous metals.

NOBLE CO., 1860 Seventh St., Oakland 20, Calif. TE 2-5785

Stationary, semi-portable and mobile cement and aggregate batching plants, Bulk cement plants, Concrete mixing plants, Aggregate conveyors and elevators, Underhung traveling cranes, Automatic plate handlers.

Branches

Calif., El Segundo—218 Richmond St. OR 8-6478
Wash., Seattle—518 First Ave., No. AT 4-4878

Representatives

Colo., Denver—Western Machinery Co., 2400 W. 7th Ave.
Mont., Billings—Seitz Machinery Co., 420 No. 24th St.
Ore., Portland—Clyde Equipment Co., 1631 N.W. Thurman.
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St.
Wash., Seattle—Star Machinery Co., 241 Lander St.
Wyo., Casper—Studer Tractor & Equipment, P. O. Box 779

NORTHERN ENGINEERING WORKS, 210 Chene St., Detroit 7, Mich.

Cranes (overhead electric traveling), Hoists (electric).

Representative

Calif., Los Angeles—Pacific Coast Industrial Equipment, P. O. Box 36008. WE 8-6201

NORTHWEST ENGINEERING CO., 135 So. LaSalle St., Chicago 3, Ill.

Cranes (truck and tractor yard).

Branch Offices

Calif., San Francisco—255 10th St. HE 1-5060
Calif., Vernon—3707 Santa Fe Ave. LU 7-2196
Wash., Seattle—1234 Sixth Ave., So. SE 2280

Representatives

Alaska, Anchorage—Bashaw Equipment Co.
Ariz., Phoenix—Superior Equipment Co., 2402 So. 19th Ave.
Calif., Eureka—Brizard-Mathews Machinery Co.
Calif., San Diego—Earthmovers Equipment & Supply, Inc., 6029 Fairmount Extension
Calif., Redding—Gerlinger Steel & Supply Co., 1527 Sacramento
Colo., Denver—Power Equipment Co., 3440 Brighton Blvd.
Idaho, Idaho Falls—Arnold Machinery Co., Inc., 1625 W. Broadway
Mont., Billings—Industrial Equipment Co., 415 No. 27th St.
Mont., Great Falls—Norment Equipment Co., 1157 Smelter Ave.
Nev., Reno—Sierra Machinery Co., Inc., 307 Morrill Ave.
N. Mex., Albuquerque—Lively Equipment Co., 2601 Fourth St., N.W.
Ore., Medford—Cal-Ore Machinery Co., Inc., 944 So. Central Ave.
Ore., Portland—Balzer Machinery Co., 2136 S.E. Eighth Ave.
Utah, Salt Lake City—Arnold Machinery Co., Inc., 433 W. Second So.
Wash., Spokane—General Machinery Co., E. 3500 Riverside Ave.
Wash., Wenatchee—Mid-State Truck & Machinery Co., 313 No. Mission St.
Wyo., Casper—Keremi Tractor & Equipment Co., 414 So. Elm St.
Wlo., Cheyenne—Keremi Tractor & Equipment Co., 703 W. 17th St.

NUTTING TRUCK & CASTER CO., 1201 W. Division St., Faribault, Minn.

Carts (hand, push), Casters, Trailers (factory and warehouse), Trucks (bag, barrel, drum, box type, die handling, dolly, factory and warehouse, hand, handling, tow line, paper roll, sheet handling, skid), Wheels (hand truck, rubber tired, trailer).

Representatives

Ariz., Phoenix—L. J. Clarke & Co., 1146 E. Indian School Rd. CR 4-7935
Ariz., Tucson—L. J. Clarke & Co., 2625 No. First Ave. Phone 4-6233
Calif., Los Angeles—H. Stewart & Associates, 1547 Estudillo Ave. AN 1-2194
Calif., Oakland—E. C. Buehrer Associates, 253 Fourth St. TE 6-2082
Ore., Portland—F. E. Bennett Co., 426 N. W. Sixth Ave. CA 8-2821
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. Phone 3-9074
Wash., Seattle—Secord Sales Co., 95 Connecticut St. MA 0737
Wash., Spokane—H. H. McVeigh, W. 310 First Ave. RI 5927

O'DONNELL, P. F., CO., 2298 Jerrold Ave., San Francisco 24, Calif.

Automatic coders and conveyor line markers for marking shipping cartons, Products, etc.

OLIVER CORP., 400 W. Madison St., Chicago, Ill.

Conveyors (apron, automatic, belt, chain or link, continuous flow, drag, gravity roller, live roller, portable), Cranes (yard, truck tractor), Rollers (conveyor), Tractors (diesel, gasoline warehouse), Trucks (diesel fork, gasoline fork).

Branches

Calif., Los Angeles—4330 District Blvd. LU 7-3297
Calif., Oakland—1066 47th Ave. KE 2-2511
Ore., Portland—130 S.E. Morrison St. BE 2-5124

Representatives

Alaska, Anchorage—Bashaw Equipment Co., P. O. Box 1999
Alaska, Fairbanks—Arctic Equipment & Machinery Co., Inc., 707 Steese Hwy.
Ariz., Phoenix—Arizona Equipment Sales, Inc., P. O. Box 1472
Calif., Bakersfield—Motor Truck Sales & Service, P. O. Box 672
Calif., Blythe—Muson Equipment.P. O. Box 128
Calif., Colton—Condosta Tractor Co., P. O. Box 351
Calif., Cotati—The H-C Equipment Co. P. O. Box 216
Calif., Eureka—Rogers Machinery Co., 3428 Jacobs Ave.
Calif., Lancaster—Robertson Implement Co., 634 W. Ave. 1
Calif., Porterville—Farmers Tractor & Equipment Co., 1475 So. Main St.
Calif., Napa—Ritz Equipment Co., 2032 Napa-Vallejo Hwy.
Calif., Northridge—West Valley Truck & Equipment Co., 18260 Parthena
Calif., Redding—Lowey Equipment Co., P. O. Box 1027
Calif., Sacramento—Flood Equipment Co., 2200 Alhambra
Calif., Salinas—Ashton Implement Co., 441 W. Market St.
Calif., San Diego—Crofton Truck & Tractor Co., Eighth Ave. and Harbor Dr.
Calif., San Jose—MFD Distributors, Inc., 1650 So. First St.
Calif., San Leandro—MFD, Inc., P. O. Box 3205
Calif., Stockton—H & M Tractor Co., P. O. Box 2167
Calif., Tustin—Schneider Tractor Co., 610 W. First St.
Idaho, Boise—Engineering Sales Service, Inc., 410 Capitol Blvd.
Nev., Whitney—Western Tractor Sales, P. O. Box 116
Mont., Billings—Caird Engineering Works, 4005 W. Montana Ave.
Mont., Helena—Caird Engineering Works, P. O. Box 837
Ore., Albany—Herrold & Jensen Implement Co., P. O. Box 321
Ore., Portland—Oregon Tractor & Equipment Co., 7606 N.E. Union St.
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St.
Wash., Chehalis—Buck & Sons Farm Equipment Co., 2155 Market St.
Wash., Walla Walla—Melcher-Ray Machinery Co., 1014 So. Ninth St.

OLIVER CORP. see also **A. B. FARQUHAR DIV.**

OLSON, SAMUEL, MFG. CO., INC., 2418 Bloomingdale Ave., Chicago 47, Ill.

Conveyors (belt, gravity roller, live roller, overhead, portable).

Representative

Calif., San Francisco—P. E. Lenfestey, 115 New Montgomery St. YU 6-1274

ORCHARD PAPER CO., 3914 No. Union Blvd., St. Louis 15, Mo.

Papers for packaging and rust prevention (VPI).

Branch Offices

Calif., Los Angeles—4717 District Blvd. LU 8-9251
Calif., San Francisco—24 California. EX 2-3833
Ore., Portland—2326 N.E. 23rd Ave. AT 4-4797

OSTER MFG. CO., THE, 1340 E. 289th St., Wickliffe, Ohio

Hand and battery operated portable lifts.

Branch Offices

Calif., Burlingame—1568 Alturas Dr. DI 4-6428
Calif., Glendora—584 No. Ranch Lane. ED 5-4816
Colo., Denver—1248 Ursala St. EM 6-8442

Representatives

Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St.
Calif., Los Angeles—Harron, Rickard & McCone Co., 3850 Santa Fe Ave. LO 5-8361
Calif., Los Angeles—Stanley E. Morris Co., 5584 Alhambra Ave. CA 1-5148
Calif., Los Angeles—Seaboard Machinery Co., 3213 E. Olympic Blvd. AN 3-4188
Calif., Los Angeles—W. F. Wolf Machinery Co., 2910 Santa Fe Ave. LO 5-6236
Calif., San Diego—Western Metal Supply Co., 215 Seventh St.
Calif., San Francisco—Harron, Rickard & McCone Co., 2070 Bryant St. AT 2-2202
Calif., Stockton—Hickinbotham Bros., Ltd., 536 So. Aurora St. HO 6-9541
Colo., Denver—Landes, Zachary & Peterson, 275 Kalamath St. MA 3-6203
Ore., Portland—The Portland Machinery Co., 208 S.W. First Ave. CA 8-9633
Wash., Seattle—Star Machinery Co., 241 Lander St., MA M.T.D.

OTIS ELEVATOR CO., see **BAKER INDUSTRIAL TRUCKS, A DIV. OF OTIS ELEVATOR CO.**

OTIS ELEVATOR CO., see **BAKER-RAULANG CO.**

OTTAWA STEEL DIV., see **YOUNG SPRING & WIRE CORP.**

PACIFIC CAR & FOUNDRY CO., Fourth and Factory, Renton, Wash. AL 5-4511

Carts (log), Cranes (tractor, booms), Hoists (tractor, drum), Winches (tractor), Rigging.

Representatives

(Distributed through Allis-Chalmers, International, Oliver Crawler, John Deere, Terratrac, Euclid, Eimco and other dealers.)

PACIFIC COAST ENGINEERING CO., Oak and Clement St., Alameda, Calif.

Cranes (gantry, electric traveling overhead, foundry overhead, charging and drawing, double beam overhead), Hoists (electric, hydraulic), Trucks (dumpers), Dredges, Penstock pipe, Trashracks, Trashrakes, Rotary kilns, Dam gates.

Representative

Calif., Pasadena—Pacific Coast Eng. Co., 774 E. Green St. RY 1-9373

PACIFIC COAST INDUSTRIAL EQUIPMENT CORP., P. O. Box 36008, Los Angeles 36, Calif. WE 8-6201

Northern cranes and hoists, Acme wire mesh partitions, Grey Hub trolley wheels, Dump hoppers, and complete metal finishing and processing system.

PACIFIC PUMPING CO., 9201 San Leandro St., Oakland 3, Calif.

Pumps (centrifugal, end suction and split case, turbine type, non-clog, contractors' self-priming, sump and sewage, submersible, boiler feed and condensate return).

Branch Offices

Ariz., Phoenix—5022 No. Arden Dr. CR 7-8900
Calif., Los Angeles—1020 So. Atlantic Blvd. AN 8-3361
Ore., Portland—526 N.W. Broadway. CA 8-2121
Wash., Seattle—114 W. Harrison. EL 6222
Wash., Spokane—10510 E. 20th Ave. WA 6-7401

PACIFIC PUMPS, INC., 5715 Bickett St., Huntington Park, Calif. LU 8-2203

Centrifugal process pumps for refinery and process industries, Centrifugal boiler feed pumps for steam generation, Plunger pumps for oil wells, Turbo-pumps for marine and general industry.

Branch

Calif., San Francisco—593 Market St. GR 1-4956

Representatives

Colo., Denver—G. M. Wallace & Co., Denham Bldg. AM 6-0386
Ore., Portland—E. S. Constant Co., 1814 S.E. 7th Ave. CA 8-6543
Utah, Salt Lake City—The Lang Co., 267 W. First So. St. DA 8-8341
Wash., Seattle—Arthur Forsythe Co., 2800 Fifteenth Ave. AL 5716

PACIFIC WIRE ROPE CO., 1840 E. 15th St., Los Angeles 21, Calif. RI 9-7511

Slings (wire rope), Wire rope.

Branches

Calif., San Francisco—681 Market St. EX 7-1372
Ore., Portland—3615 N. W. St. Helens Rd. BE 3188

PAK-RAPID, INC., 18 Elizabeth St., W. Conshohocken, Pa.

Packaging machinery.

Representatives

Calif., Los Angeles—Frank Shaw Co., 654 So. Westlake Ave. DU 5-5591
Calif., San Francisco—Ralph E. Peters Co., 420 Market St. SU 1-1379

PALTIER CORP., 1701 Kentucky St., Michigan City, Ind.

Boxes for shipping, Racks (pallet, storage, other).

Representatives

Calif., Los Angeles—Davis Material Handling Co., 4891 Huntington Dr.
Calif., San Francisco — Western Industrial Equipment Co., 420 Market St. SU 1-4757
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Wash., Seattle—Air-Mac, Inc., 3838 W. 4th Ave. So. MU 3388

PARAMOUNT MFG. CO., 1615 East Main St., Stockton 1, Calif. HO 6-8519

Belting (chain link, conveyor, elevator, draper), Conveyors (bag, bale, belt, chain or link, continuous, flight, live roller, portable, skate), Elevators (belt, continuous flow, portable tiering), Packaging machinery, Pulleys (conveyor), Tables (conveying, portable, grading), Produce sizers, Washers.

Branch

Calif., Shafter—588 E. Lerdo. PI 6-4062

Representatives

Colo., Monte Vista—Bockhaus Mfg. Co.
Idaho, Idaho Falls—Pacific Diamond H Bag Co.
Idaho, Twin Falls—Pacific Diamond H Bag Co.
Wash., Sunnyside—Paramount Sales & Service

PENCO ENGINEERING CO., 701 Welch Rd., Palo Alto, Calif. DA 3-6137

Dock Boards, Loading ramps.

PENCO METAL PRODUCTS DIVISION, ALAN WOOD STEEL CO., Oaks, Pa.

Steel lockers, Steel storage shelving, Steel storage and wardrobe cabinets.

Representative

Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza St. AN 9-0567

PETLEY, INC., 5424 E. Slauson Ave., Los Angeles 22, Calif.

Benches, Bins, Boxes (tote), Lockers, Pallets, Racks (pallet, storage), Skids.

Branch

Calif., Oakland—899 73rd Ave. TR 2-7621

Representatives

Ariz., Phoenix—Labagh Equipment & Sales Co., 904 E. Camelback Rd. AM 5-9809
Calif., Bakersfield—Bruce Stickler's, 1601 18th St. FA 4-6408
Calif., Fresno—Shelco Industries, 1931 Mariposa. AM 8-8444
Calif., San Diego—C. S. Goodale Co., 843 India St. BE 3-5410

PHILADELPHIA CHAIN BLOCK & MFG. CO., INC., PHILADELPHIA HOIST DIV., Doyle and No. Hamilton Sts., Doylestown, Pa.

Chains, Cranes (gantry, hand power, jib, pillar, swing, double beam overhead, electric and electric traveling overhead, I beam overhead, monorail overhead), Hoists (chain, crane, electric, hand, monorail, portable), Trolleys.

Representatives

Calif., Huntington Park—Western Material Handling Corp., 7810 Salt Lake Ave. LU 2-2616
Calif., San Francisco—Robert M. Taylor Co., 268 Market St. YU 2-1760
Colo., Denver—Hahn Equipment Co., 1795 Sheridan St. BE 7-0433
Ore., Portland—McMahon Bros., 337 Pittock Block. AT 6878
Wash., Seattle—F. J. Crowe Co., 325 Second Ave. W. AL 3844

PIONEER PALLET CO., 1650 Middle Harbor Rd., Oakland 20, Calif. GL 2-4570

Pallets, Pallet bins, Skids, Crates, Pallet repair shook.

PITTSBURGH STEEL PRODUCTS DIV., PITTSBURGH STEEL CO., P. O. Box 118, Pittsburgh 30, Pa.

Baskets (wire), Boxes for shipping (wire), Pallets, Bulkheads (railroad shipping).

Branches

Calif., Los Angeles—Suite 1118, Statler Center. MA 5-1456

Representatives

Calif., San Francisco—James A. Old & Son, 171 Second St.
Calif., Torrance—Meyer & Williams Sales, 22900 Frampton Ave.
Utah, Salt Lake City—Utah Lumber Co., 333 W. First South St.

POLLARD BROS. MFG. CO., 5504 N.W. Highway, Chicago 30, Ill.

Hand trucks (two and four wheel), Work benches.

Representatives

Ariz., Phoenix—Pratt-Gilbert-Howe, P. O. Box 2230
Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza. AN 9-0567
Calif., San Francisco—A. J. Glesener, 975 Bryant
Wash., Spokane—Jensen-Byrd, 320 Riverside

POLYKEN SALES DIV., KENDALL CO., 309 W. Jackson Blvd., Chicago 6, Ill.

Pressure sensitive tapes.

Branch

Calif., Los Angeles—5880 Hollywood Blvd. HO 2-8218

PORTER, H. K., 74 Foley St., Somerville 43, Mass.

Cutters (bolt, rod, wire, cable, hand and power-operated).

Branches

Calif., San Francisco—24 California St. YU 2-3186
Colo., Denver—1126 12th St.
Ore., Portland—309 S. W. Third Ave.
Wash., Seattle—Third Ave. and Cherry St.

PORTER, H. K., also see **QUAKER PIONEER RUBBER DIV.**

PORTCO CORP., 1100 Terminal Sales Bldg., Portland 1, Ore. CA 2-9495

Bags (multi-wall, shipping, custom), Packing material, Pallets, Trucks (twine).

Branches

Calif., Los Angeles—4508 Crenshaw Ave.
Calif., San Carlos—792 Laurel Ave.
Wash., Seattle—Dexter Horton Building, No. 444
Wash., Vancouver—Robert Bjodstrup

PORTLAND CHAIN MFG. CO., 653 Skinner Bldg., Seattle, Wash.

Chains, Conveyors (apron, belt, chain or link, drag, flight, live roller, portable), Idlers (conveyor), Slings (chain).

Branches

Ore., Portland—4000 N.W. Yeon Ave. CA 8-9219
Wash., Bellingham—Phone 442

Representatives

Calif., Arcata—Munnell & Sherrill of California, P. O. Box 217
Calif., Arcata—Reliable Hardware Co., P. O. Box 695
Calif., Eureka—Fred E. Barnett Co., Broadway & Harris St.
Calif., North Sacramento—Fred E. Barnett Co., 999 Arden Way
Calif., Redding—Gerlinger Steel & Supply Co., P. O. Box 539
Calif., San Francisco—Fred E. Barnett Co., 1455 Custer Ave.
Calif., Ukiah—Fred E. Barnett Co., P. O. Box 548
Ore., Eugene—American Steel & Supply, 44 Seventh Ave. E.
Ore., Eugene—Munnell & Sherrill, Inc., P. O. Box 3265
Ore., Klamath Falls—Fred E. Barnett Co., 600 Spring St.
Ore., Medford—American Steel & Supply, P. O. Box 1346
Ore., Portland—Munnell & Sherrill., Inc., 1163 N.E. 63rd Ave.
Ore., Roseburg—Munnell & Sherrill, Inc., Rt. 4, Box 50
Wash., Aberdeen—Mill & Logging Supply, 313 So. H St.
Wash., Everett—Washington Belting & Rubber Co., 2923 Grand Ave.
Wash., Seattle—Washington Belting & Rubber Co., 2763 First Ave. So.
Wash., Spokane—Biteo, Inc., E. 4115 Trent Ave.
Wash., Tacoma—Washington Belting & Rubber Co., 672 E. 11th St.

POWELL PRESSED STEEL CO., Erie St., Hubbard, Ohio

All steel boxes, skid platforms, box platforms, pallets, and production boxes and stands.

Representatives

Calif., Lynwood—J. W. Lafferty Co., 11371 So. Atlantic. NE 6-1828
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827
Colo., Denver—McDonald-Hunt Scale & Supply 1540 Wazee St. AC 5651
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grant Ave. BE 4-6524
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. Phone 3-9074
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

POWER-CURVE CONVEYOR CO., 2185 So. Jason St., Denver, Colo.

Conveyors (bag and bale, portable), Elevators, Loaders (portable, self-propelled), Flatteners (bag).

Representative

Calif., Pasadena—Empire Engineering Co., 385 E. Green St. RY 1-6178
Ore., Portland—Thurlow, Inc., 1224 S.W. Morrison. CA 8-8508
Wash., Seattle—Thurlow, Inc., 2405 11th Ave. S.W. EL 5743
Wash., Spokane—Thurlow, Inc., So. 125 Stevens. MA 5288

PRESCOTT, GEO. M., CO., 825 So. Fremont Ave., Alhambra, Calif.

Trucks (warehouse, dragline), Trailers, Skids, Semi-live skids.

Representatives

Ariz., Phoenix—Kistler Industrial Service, 902 So. Central AL 2-7217
Calif., Oakland—Roll-Rite Corp., 801 Jefferson St.
Calif., San Diego—Myers Equipment Co., 1025 11th Ave.
Idaho, Idaho Falls—Arnold Machinery Co., 1302 W. Broadway. Phone 3672
Ore., Portland—John W. Negus Co., 3005 N.E. Sandy Blvd. FI 8515
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St. Phone 22-5631
Wash., Seattle—Masterson's Equipment Supplies, Inc., 2720 Westlake, No.

PRESSTEEL CO., 9705 E. Garvey, El Monte, Calif. CU 3-1225 and GI 8-9790

Industrial benches and tables, Boxes (portable tool tote, stocking), Stock carts, Storage cabinets (small parts).

PRIME CO., INC., 4110 Airport Way, Seattle 8, Wash.
Stitching and stitching equipment.

PRIME-MOVER CO., Sampson St., Muscatine, Ia.
Wheelbarrows (powered).

Representatives

Ariz., Phoenix—Equipment Sales Co., 720 So. 19th Ave. AL 8-7151
Calif., Los Angeles—Essick Machinery Co., 1950 Santa Fe Ave. MA 9-3341
Calif., Oakland—C. P. Concrete Equip. Co., 1100 Sixth Ave. TE 4-8366
Colo., Denver—Constructors Equip. Co., 3611 Walnut St. AL 5-3474
Idaho, Boise—Sawtooth Co., 1115 Grove St. Phone 3-3603
Mont., Billings—Industrial Equipment Co., 415 No. 27th St. Phone 2-2158
Mont., Great Falls—Normont Equipment Co., Tenth Ave. So. and River Rd. Phone 6-6527
Mont., Kalispell—Treasure State Equipment Co., Fifth Ave. W. N. and Railroad. Phone 5628
Nev., Reno—Pioneer Equipment Co., 525 Kietzke Lane
N. Mex., Albuquerque—J. D. Coggins Co., 1717 No. Second St. Phone 3-5505
Ore., Portland—Loggers & Contractors Machinery Co., 240 S. E. Clay St. BE 2-0151
Utah, Salt Lake City—Rocky Mountain Machinery Co., 1485 So. Second West St. Phone 84-4378
Wash., Seattle—Universal Equipment Co., 1549 Eastlake Ave. CA 2136
Wash., Spokane—Safway Scaffold, Inc., No. 703 Pittsburgh St. KE 4-1506

QUAKER PIONEER RUBBER DIV., H. K. PORTER CO., P. O. Box 791, Pittsburg, Calif.
Mechanical rubber goods.

Branches

Calif., Los Angeles—4384 E. Bandini Blvd.
Calif., San Francisco—520 Fourth St.

"QUICK-WAY" TRUCK SHOVEL CO. 2401 E. 40th Ave., Denver 8, Colo.
Cranes (yard, truck)

Branches

Calif., Los Angeles—Douglas Coiner, 10484 Lindbrook Dr. BR 0-4723
Wash., Spokane—L. R. Engquist, No. 6624 Monroe St. EM 8066—FA 7-8066

Representatives

Ariz., Phoenix—Equipment Sales Co., 729 So. 19th St. AL 8-7151
Calif., Fresno—Edw. R. Bacon Co., 2496 So. Railroad Ave.
Calif., Los Angeles—Smith-Booth-Usher Co., 2001 Santa Fe Ave.
Calif., Oakland—Edw R. Bacon Co., 1135 57th Ave.
Calif., Sacramento—Edw. R. Bacon Co., 420 17th St.
Calif., San Francisco—Edw. R. Bacon Co., 2101 Folsom St. HE 1-3700
Calif., Stockton—Edw. R. Bacon Co., 246 E. Miner Ave.
Colo., Denver—H. W. Moore Equipment Co., 5990 Colorado Blvd. AT 8-0771
Colo., Grand Junction—P. O. Box 1797. Phone 2868
Idaho, Boise—Arnold Machinery Co., Inc., 7455 Westwood Dr. Phone 2-1174
Idaho, Idaho Falls—Arnold Machinery, 1265 W. Broadway
Mont., Billings—Montana Powder & Equipment Co., 1024 Fourth Ave. No. Phone 4-4426
Mont., Helena—Montana Powder & Equipment Co., 12 E. Lawrence. HI 2-2990
N. Mex., Albuquerque—J. D. Coggins Co., 1717 No. Second St. Phone 3-5505.
Ore., Portland—Columbia Equipment Co., 1240 S. E. 12th Ave. EA 7148
Utah, Salt Lake City—Arnold Machinery Co., 433 W. Second So. St. DA 2-5631
Wash., Seattle—Columbia Equipment Co., 5030 First Ave. So. LA 1530
Wash., Spokane—Columbia Equipment Co., 1007 Freya St. KE 1581
Wyo., Casper—Keremi Tractor & Equipment Co., 414 So. Elm St. 3-6631
Wyo., Cheyenne—Keremi Tractor & Equipment Co., 502 W. 22nd St. Phone 3-8928

R & K INDUSTRIAL PRODUCTS CO., 1945 No. Seventh St., Richmond, Calif.
Wheels (general industrial, hand truck, rubber tired).

Representatives

Calif., Los Angeles—Colson Equipment & Supply Co., 1317 Willow St.
Calif., Oakland—Colson Equipment & Supply Co., 350 10th St.
Calif., Oakland—Industrial Service, 616 McClary St.
Calif., Sacramento—Sacramento Rubber Co., 721 "J" St.
Calif., San Diego—Myers Equipment Co., 1025 11th St.
Calif., San Francisco—Colson Equipment & Supply Co., 20 Beale St.
Calif., San Francisco—Murphy & Simi Co., 912 Howard St.
Calif., Santa Barbara—Industrial Products, 11 E. Haley St.
Colo., Denver—Joe Coursey, 1243 Walnut St.
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave.
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd.
Wash., Seattle—Air-Mac Inc. of Washington, 3828 Fourth Ave.
Wash., Seattle—Campbell Industrial Supply Co., 3433 Airport Way
Wash., Spokane—Spokane Cycle & Toy Co., 217-219 Post St.

RACK ENGINEERING CO. OF CALIF., INC., 731 E. 182nd St., Los Angeles, Calif.
Baskets (metal, wire), Bins, Carts (hand and push, other), Casters, Conveyors (gravity roller, pallet, skate, special and other), Cranes (gantry), Grabs, Pallets (steel and wire), Racks (pallet, storage, other), Rollers (conveyor), Tables (conveying, elevating, portable, other), Trucks (bag, barrel, drum, box type, dolly, hand, hand lift, hand-mechanical lift, hydraulic lift, pallet, sheet handling), Wheels (conveyor, rubber tired).

Representatives

Ariz., Phoenix—Kinney Material Handling Equip., Inc., 929 Grand Ave. AL 8-2778
Calif., Los Angeles—Storage Rack Systems, Inc., 5141 Telegraph Rd. AN 9-7411
Calif., San Francisco—Enterprise Commercial Co., 20 Pacific Ave. EX 7-0618
Calif., San Francisco—James A. Old & Son, 171 Second St. SU 1-1100
N. Mex., Albuquerque—Albuquerque Materials Handling Co., 6431 Linn Ave. Phone 6-5518
Wash., Seattle—Timmerman Equipment Co., 1114-16 Post Ave. MU 6332

RANDOLPH INDUSTRIAL EQUIPMENT CO., 9559 W. Grand Ave., Franklin Park, Ill.
Tote boxes, Pallets, Racks.

Representatives

Calif., Los Angeles—Ed Sullivan Equip. Engr. Serv., 672 So. Lafayette Park Pl.
Calif., South San Francisco—Hamerslag Equip. Co., 110 Freeway Blvd.
Colo., Denver—Plant Equip. Co., 1400 Market.

RAPIDS MACHINERY CO., INC., 889 Eleventh St., Marion, Iowa
Bucket elevators, conveyors and mixing equipment.

Representative

Calif., Los Angeles—L. N. Webster & Co., 4221½ Avacado. NO 3-0652

RAPISTAN-KEYSTONE, INC., 21750 W. Eight Mile Rd., Detroit 41, Mich.
Overhead trolley and chain conveyor, Overhead power and free conveyor, Overhead monorail, Continuous vertical lift chain conveyor, Dry cleaning garment conveyor.

Representatives

Ariz., Phoenix—E. D. Flournoy Co., 3825 W. Indian Rd. AP 8-4502
Calif., Los Angeles—E. A. Stevenson Co., 820 Santa Fe Ave. TR 6903
Calif., San Francisco—Rapistan of California, 444 Brannan St. YU 2-3880
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5296
N. Mex., Albuquerque—E. D. Flournoy Co., 217 Sixth St. S.W. Phone 3-1055
Ore., Portland—Air-Mac, Inc. of Oregon, 1111 S.E. Grand Ave. BE 4-6524
Utah, Ogden—Horsley Co., 2416 Grant Ave. EX 3-8477
Wash., Seattle—Air-Mac, Inc. of Washington, 3838 Fourth Ave. So. MU 3388

RAPIDS STANDARD CO., 342 Rapistan Bldg., Grand Rapids 2, Mich.
Casters, Conveyors (belt, gravity roller, live roller, overhead, pallet, portable), Racks (storage), Trucks (hand), Wheels (hand truck).

Representatives

Ariz., Phoenix—Luna Corp., 447 W. Jefferson. Phone 3-4021
Calif., Los Angeles—E. A. Stevenson Co., 820 Santa Fe Ave. TR 6905
Calif., San Francisco—Rapistan of Calif., 444 Brannan St., YU 2-3880
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5296
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Utah, Ogden—The Horseley Co., 2416 Grant Ave. EX 3-8477
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

RAYBESTOS - MANHATTAN, INC., MANHATTAN RUBBER DIV., 61 Willett St., Passaic, N. J.
Belting (conveyor, fabric, canvas, elevator, rubber, endless), Elevators (belt, bucket), Slings (belt).

Branches

Calif., Los Angeles—4651 Pacific Blvd.
Calif., San Francisco—181 Mission St.
Ore., Portland—1220 S. W. Stark St.
Wash., Seattle—2450 Sixth Ave. So.

RAYMOND CORP., 161 Madison St., Greene, N. Y.
Platforms (loading), Stackers (electric portable, hand portable), Tables (elevating, portable, sheet feeding), Trucks (electric fork, hand, motorized hand, hand lift, hand-electric lift, hydraulic lift, power-driven lift, pallet, skid handling, electric tiering).

Representatives

Ariz., Phoenix—E. D. Flournoy Co., 420 So. Third Ave. AL 2-8607
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Calif., San Francisco—Rapistan of California, Inc., 444 Brannan St. YU 2-3880
Colo., Denver—Murray Sales Co., 16 Wazee St. KE 5297
N. Mex., Albuquerque—E. D. Flournoy Co., 217 Sixth St. S. W. Phone 3-0155
Ore., Portland—Air-Mac, Inc., 1435 S.E. Union Ave. FI 6524
Utah, Ogden—The Horsley Co., 2416 Grant Ave.
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388
Wash., Spokane—Air-Mac, Inc., E. 3710 Trent Ave. KE 0561

READY-POWER CO., 3826 Grand River Ave., Detroit 8, Mich.
Power units for electric industrial trucks.

Representative

Calif., Huntington Park—Karl Moellendick, Inc., 7813 California St. LU 5-7425

REEVES PULLEY CO., DIV. RELIANCE ELECTRIC & ENGINEERING CO., 1225 Seventh St., Columbus, Ind.
Belting, Pulleys, Variable speed drives, controls

Branch Offices

Calif., Burlingame—1525 Adrian Rd. OX 7-5341
Calif., Los Angeles—2557 Yates Ave. RA 3-8454
Calif., Sacramento—2015 J St. GI 8-1682

Representatives

Ore., Portland—Shaffer & Nelson Co., 139 So. Taylor St. BE 4-7437
Utah, Salt Lake City—C. W. Silver Co., 550 W. 7th So. St. EL 5-5378
Wash., Seattle—Shaffer & Nelson, 312 Occidental Ave. MU 0186-0187
Wash., Spokane—Shaffer & Nelson Co., P. O. Box 198. FA 7-9528

REPUBLIC RUBBER DIV., LEE RUBBER & TIRE CORP., 1410 Albert St., Youngstown, Ohio
Belting (conveyor, elevator, endless), Slings (belt), Hose.

Representatives

Calif., Los Angeles—Hendrie Belting & Rubber
Calif., San Francisco—Pacific Coast Rubber
Ore., Portland—J. E. Haseltine & Co.
Wash., Seattle—B & J Equipment Co.
Wash., Spokane—General Machinery Co.
Wash., Tacoma—DuCharme Belting & Rubber

REPUBLIC STEEL CORP. see **BERGER DIV., REPUBLIC STEEL CORP.**

REPUBLIC STEEL CORP., Republic Bldg., Cleveland 1, Ohio

Barrels (shipping, steel), Bins, Boxes (shipping, tote), Chains, Pallets, Racks (pallet, storage), Skids, Slings (chain).

Branches

Calif., Los Angeles—M-H Equip., General Petroleum Bldg. MI 5144
Calif., Los Angeles—Chain Div., 2900 E. 44th St. LU 8-9218
Calif., San Francisco—M-H Equip., 225 Rialto Bldg. GA 1-0977
Calif., So. San Francisco—Chain Div., 196 Freeway. PL 6-0088
Colo., Denver—M-H Equip., 405 Continental Oil Bldg. MA 3-5289
Colo., Denver—Berger Div., 2995 Quitman St. GL 5-3837
Ore., Portland—Berger Div., 1801 N.W. Northrup St. CA 6944
Ore., Portland—Chain Div., 2258 N.W. Raleigh St. CA 7-6476
Wash., Seattle—M-H Equip., 6636 White-Henry-Stuart Bldg. MA 8583
Wash., Seattle—Chain Div., 6901 E. Marginal Way. RA 3800

Representatives

Calif., Fresno—Petley, Inc., Anglo Bank Bldg.
Calif., Los Angeles—Petley, Inc., 5424 E. Slauson Ave. RA 3-3327
Calif., Oakland—Petley, Inc., 899 73rd Ave. TR 2-7621
Ore., Portland—The Thoma Co., 7427 N. Denver

REVOLVATOR CO., 8798 Tonnele Ave., North Bergen, N. J.

Cranes (hand power), Elevators (portable tiering), Racks, Stackers (portable electric, portable hand), Tables (elevating), Trucks (elevating or lifting, electric fork, hand, motorized hand, industrial, hand lift, hand-electric lift, hand-mechanical lift, hydraulic lift, power-driven lift, pallet, skid handling, electric tiering).

Representatives

Calif., Lynwood—J. W. Lafferty Co., 11371 So. Atlantic Ave. NE 6-1828
Calif., San Francisco—Ira G. Perin Co., 575 Howard St. GA 1-1827
Colo., Denver—Materials Handling Equip. Co., 1795 Sheridan Blvd.
Ore., Portland—Oregon Handling Equipment Co., 2949 N.W. St. Helens Rd.
Wash., Seattle—Cascade Handling Equipment Co., 911 Western Ave. MA 7069

RHEEM MFG. CO., 4361 Firestone Blvd., South Gate, Calif. LO 7-1155

Barrels for shipping (fibre, steel).

Branch

Calif., Richmond—800 Chesley Ave. BE 4-7114

RHOADS, J. E., & SONS, 2100 W. 11th St., Wilmington, Del.

Belting (leather), Belt fastenings and belt lacings, Pulleys, Strapping.

Representatives

Calif., Los Angeles—R. H. Hergert, 704 So. Spring St.
Calif., San Francisco—H. N. Cook, 401 Howard St.
Ore., Portland—C. L. Koerner, 12200 S.E. Oatfield Rd.

RICHARDSON SCALE CO., 668 Van Houten Ave., Clifton, N. J.

Conveyors (belt, portable, screw), Scales (automatic, packaging, portable), Packaging machinery.

Branch

Calif., San Francisco—580 Market St. SU 1-3724

RICHARDS-WILCOX MFG. CO., 174 Third St., Aurora, Ill.

Conveyors (automatic, chain or link, continuous flow, overhead, trolley), Cranes (hand power, jib, pillar, swing, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Door controls, Trolleys.

Branches

Calif., Los Angeles—2323 W. Third St. DU 8-6173
Calif., San Francisco—850 So. Van Ness Ave. MI 2-6700
Ore., Portland—317 Bldrs. Exch. Office. CA 8-6443
Wash., Seattle—1160 Fairview, No. MA 3650

ROBBINS & MYERS, INC., HOIST & CRANE DIV., 1345 Lagonda Ave., Springfield, Ohio

Cranes (gantry, hand power, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Hoists (chain, crane, drum, electric, hand, monorail, portable, traveling).

Representatives

Calif., Compton—K. J. Verrinder, 2310 No. Alameda St.
Colo., Denver—Material Handling Equip. Co., 1795 Sheridan Blvd.
Ore., Portland—McMahon Bros., Inc., 204 Fitzpatrick Bldg.
Wash., Seattle—F. T. Crowe & Co., Inc., 325 Second Ave. W.

ROCKY MOUNTAIN STEEL, 1753 Blake Ave., Los Angeles 31, Calif.

Tractors (diesel, electric warehouse, gasoline warehouse, monorail), Trailers (factory and warehouse, motor truck and tractor).

Representatives

Calif., San Francisco—Ira G. Perin Co., 575 Howard. GA 1-1827
Ore., Portland—Air-Mac, Inc.
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

ROEBLING'S, JOHN A., SONS CORP., 640 So. Broad St., Trenton 2, N. J.

Slings (wire rope), Wire rope.

Branches

Calif., Los Angeles—5340 E. Harbor St. RA 3-6421
Calif., San Francisco—1740 17th St. MA 1-8787
Colo., Denver—4801 Jackson St. FR 7-2769
Wash., Seattle—900 First Ave. So. MA 4992

ROL-AWAY TRUCK MFG. CO., INC., 6143 S. E. Foster Rd., Portland 6, Ore.

See advertisement on page 80

Carts, Trucks, Ladder trucks (aluminum, box type, factory, warehouse, hand, sheet handling, high access maintenance, stock-pickers, utility trucks, heavy flat load trucks, others).

Representatives

Ariz., Phoenix—Kistler Ind. Service, 902 So. Central Ave.
Calif., Los Angeles—Colson Equip. & Supply Co., 1317 Willow St.
Calif., Los Angeles—Green-Penny Co., 4180 E. Noakes St.
Calif., Los Angeles—Irving G. King & Co., 821 Mateo Ave.
Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd.
Calif., Oakland—Green-Penny Co., 2211 San Pablo Ave.
Calif., San Diego—C. S. Goodale Co., 843 India St.
Calif., San Francisco—P. G. Corcoran Co., 450 Potrero Ave.
Calif., So. San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd.
Colo., Denver—J. D. Whiting, 4135 Quitman St.
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl.
Wash., Seattle—Air Mac, Inc. of Washington, 3838 Fourth Ave. So.
Wash., Seattle—G. E. Burleigh Co., 5245 Pullman Ave.
Wash., Seattle—Materials Handling Equipment Co., Ind., 2963 First Ave. So.

ROLL RITE CORP., 801 Jefferson St., Oakland 19, Calif. GL 1-5921

Carts (hand, push, other), Casters, Conveyors (pallet), Dock boards, Loading platforms, Racks (pallet, storage, other), Loading Ramps, Tires (industrial truck and trailer), Trailers (factory and warehouse), Trucks (bag, barrel, drum, box type, dolly, factory and warehouse, hand, pallet), Wheels (general industrial, hand truck, rubber tired, trailer) Skeleton Steel Pallets.

ROPER HYDRAULICS, INC., Rockford, Ill.

Positive displacement rotary gear pumps for industrial and general transfer service.

See advertisement on page 20

Representatives

Ariz., Phoenix—Salt River Pump & Supply Co., Inc., 2011 W. Jackson St. Phone 3-3526
Calif., Los Angeles—Pump Engineering Co., 2011 Santa Fe Ave. TR 5662
Calif., San Francisco—Woodin & Little, 80 Elmira St. JU 6-6500
Colo., Denver—Colorado Pump & Supply Co., 1449 So. Broadway. PE 3-3709
Colo., Denver—Eaton Metal Products Co., 4800 York St. TA 7205
Colo., Denver—Mine & Smelter Supply Co., 1422 17th St. KE 3111
Colo., Denver—Waukesha Engine & Equipment Co., 4999 Jackson St. FL 1641
Mont., Billings—Eaton Metal Products Co., 501 No. 18th St. Phone 2139
Mont., Billings—Great Northern Tool & Supply Co., 2224 Minnesota Ave. Phone 2-2141
Mont., Cut Bank—Great Northern Tool & Supply Co., Phone 200
Mont., Kevin—Great Northern Tool & Supply Co. Phone 7
N. Mex., Albuquerque—Eaton Metal Products Co., 1824 No. Second St. Phone 3-4406
N. Mex., Albuquerque—Kohlhaas Tank & Equipment Co., 2212 No. First St. Phone 2-3144
N. Mex., Albuquerque—New Mexico Tank & Culvert Co., 1717 No. Sixth St. Phone 2-2956
N. Mex., Farmington—Waukesha Engine & Equipment Co., 508 E. Main. Phone 454W
Ore., Portland—Pacific Pumping Co., 526 N.W. Broadway. AT 2121
Wash., Seattle—Pacific Pumping Co., 114 W. Harrison. EL 6222
Wyo., Casper—Great Northern Tool & Supply Co., 358 W. Midwest. Phone 3-8356
Wyo., Casper—Waukesha Engine & Equipment Co., 810 W. Yellowstone Rd. Phone 4076

ROSS CARRIER DIV., see **CLARK EQUIPMENT CO., ROSS CARRIER DIV.**

ROTARY LIFT CO., 1054 Kansas St., Memphis 2, Tenn.

Dock ramps (fully automatic, mechanical oil hydraulic), Levelator lifts (oil hydraulic), Truck levelers (oil hydraulic), Transfer bridges and crossover bridges (oil hydraulic), Jacks (oil hydraulic), Elevators (passenger, freight, oil hydraulic).

Branches

Calif., Pacific Palisades—727 Chapala Dr.

Representatives

Ariz., Phoenix—Phoenix Elevator Co., Title and Trust Bldg.
Calif., Fresno—Valley Elevator Co., 921 L St.
Calif., Los Angeles—Elevator Maintenance Co., 1316 Glendale Blvd.
Calif., Oakland—Moody, Sweazey & Rowe, 2510 Filbert St.
Calif., Sacramento—Valley Elevator Co., 1606 D St.
Calif., San Jose—San Jose Elevator Co., 1016 Stockton Ave.
Colo., Denver—Wm. Colin Kirk & Associates, 1197 Stout St.
N. Mex., Albuquerque—Hunter-Hayes Elevator Co., 106 Buena Vista S.E.
Ore., Portland—Oregon Elevator Co., 902 S.E. Mill St.
Utah, Salt Lake City—Elevator Service & Supply Co., 36 E. NInth South St.
Wash., Seattle—Sound Elevator Co., 2718 Elliott Ave.
Wash., Spokane—Spokane Elevator Co., 1908 E. Mallon Ave.
Wash., Tacoma—Globe Machine Manufacturing Co., 301 E. 11th St.

ROUND, DAVID & SON, INC., P. O. Box 883, Cleveland 22, Ohio

Chains (pocket wheel hoist), Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, portable floor), Hoists (chain, electric, hand, portable, trolley), Trolleys, Winches (spur geared, worm geared, hand, electric).

Representatives

Calif., Berkeley—Thos. A. Fletcher Sales, 2216 W. Fifth St. TH 5-1863
Calif., Los Angeles—Hoist Specialties, Inc., 429 So. Western Ave. DU 8-2417
Wash., Seattle—B. P. Rutherford, Inc., 1954 First Ave. So. EL 1954

ROWE METHODS, INC., 2534 Detroit Ave., Cleveland 13, Ohio
Adjustable ramps for loading docks.

See advertisement on page 145

Representatives
Calif., Oakland—Industrial Service Co., 616 McClary St. LO 9-2545
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand. BE 4-6524
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave., So. MU 3388

RUCKER CO., 4700 San Pablo Ave., Oakland 8, Calif.
Jacks (hydraulic), Packaging Machinery, Pumps (liquid handling), Scales (automatic, packing).
Branches
Calif., South Gate—4956 Firestone Blvd. LO 4-2521
Ore., Portland—911 N.W. Hoyt St. CA 3-0205
Wash., Seattle—1000 Fourth Ave. So. MA 2783

RUGER EQUIPMENT, INC., 615 W. Fourth St., Uhrichsville, Ohio.
Cranes (hand power, hydraulic, portbale), Hoists (crane, hand, hydraulic, portable), Hand-operated Hydraulic Truck-Mounted Cranes.
Representatives
Calif., Hollydale—James Staneart, P. O. Box 28. ME 3-0386
Ore., Portland—Ruger Equipment Co., 2784 N. W. Thurman. CA 7-6282

RUSSELL MFG. CO., THE, 400 E. Main St., Middletown, Conn.
Belting (conveyor, canvas, elevator, endless).
Branch Office
Calif., Oakland—555 Fifth Ave. GI 2-2442
Representative
Calif., Los Angeles—C. R. Davis Co., 422 E. 3rd. MU 3144

SACKNER PRODUCTS, INC., 901 Ottawa Ave., N.W., Grand Rapids 2, Mich.
Packaging pads, Padding materials, Padded steel strap.
Representatives
Calif., Los Angeles—Glenn D. McLaughlin Co., 2442 Hunter St. TU 8161
Colo., Denver—Acme Upholstery Supply, 1401 Blake St. AC 2-3823
Ore., Portland—Van Waters & Rogers, 2133 N.W. York St.
Wash., Seattle—Van Waters & Rogers, 4000 1st Ave., So. SE 5050
Wash., Spokane—Van Waters & Rogers, No. 809 Washington

SAGE EQUIPMENT CO., INC., 30 Essex St., Buffalo 13, N. Y.
Conveyors (apron, automatic, bag, bale, belt, bucket, chain or link, flight, foundry, gravity roller, live roller, pallet, portable, skate, slat, trolley, special and other).
Branch
Calif., Compton—2310 No. Alameda. NE 6-8127

SAMMONS & SONS, 2911 Norton Ave., Lynwood, Calif.
Storage racks, Adjustable pallet racks, U racks, Custom-built racks.
Representative
Calif., Los Angeles—Equipment Engineering Services, 672 So. Lafayette Park Pl. DU 7-8521

SANDVIK STEEL, INC., 1702 Nevins Rd., Fair Lawn, N. J.
Belting, Conveyors.
Branch Offices
Calif., Los Angeles—3338 So. Malt Ave. RA 3-9116

SASGEN DERRICK CO., 3101 W. Grand Ave., Chicago 22, Ill.
Cranes (hand power), Elevators, Hoists (derrick, drum, electric, gasoline, hand), Winches and Windlasses.
Representatives
Calif., Los Angeles—Smith-Booth-Usher Co., 2001 Santa Fe
Calif., San Francisco—Edw. R. Bacon Co., 17th and Folsom
Colo., Denver—Universal Co., 1426 Ulster
Ore., Portland—Loggers & Contractors Machinery Co., 240 S.E. Clay
Wash., Seattle—Northwest Scaffolding Co., 3636 E. Marginal Way

SAUERMAN BROS., INC., 620 So. 28th Ave., Bellwood, Ill.
Conveyors (drag), Hoists (air, drum, electric, gasoline), Winches and windlasses, Wire rope and fittings.
Representatives
Calif., Los Angeles—Smith-Booth-Usher, 2001 Santa Fe Ave. TR 6911
Calif., San Francisco—H. L. Davis, 607 Market St. GA 1-0426
Colo., Denver—Constructors Equipment Co., 3707 Downing St. AL 5-3474
Mont., Butte—Hall-Perry Machinery Co., 812 E. Iron. Phone 2-2323
Ore., Portland—Clyde Equipment Co., 1631 N.W. Thurman. BR 5561
Wash., Seattle—Clyde Equipment Co., 3410 First Ave. So. MA 1235
Wash., Seattle—Northern Commercial Co., 419 Colman Bldg.
Wash., Spokane — Intermountain Equipment Co., 611 Sprague St. TE 2521

SCHIELD BANTAM CO., 223 Park St., Waverly, Iowa
Cranes (yard, truck, carrier-mounted, crawler-mounted, self-propelled, power), Clamshells, Draglines, Grapples, Back hoes, Shovels, Magnets, Pile-drivers, Backfillers.
Branch Offices
Calif., San Fernando—J. C. Carlile, 10451 Peach St.
Wash., Spokane—R. A. Otterness, P. O. Box 549
Representatives
Alaska, Anchorage—Yukon Equipment, Inc., P. O. Box 1539
Alaska, Fairbanks—Yukon Equipment, Inc., P. O. Box 1290
Alaska, Ketchikan—Yukon Equipment, Inc., P. O. Box 174
Ariz., Phoenix—Cook Bros. Equipment Sales, 2300 So. 16th St.
Calif., Fresno—Contractors Equipment & Supply Co., 1143 "C" St.
Calif., Los Angeles—Cook Bros. Construction Machinery Co., 3334 San Fernando Rd.
Calif., Los Angeles—Essick Machinery Co., 1950 Santa Fe Ave.
Calif., San Francisco—Standard Machinery Co., 450 Bayshore Blvd.
Calif., Santa Ana—Essick Machinery Co., 12202 Westminster Ave.
Colo., Denver—Power Equipment Co., P. O. Box 28
Cool., Grand Junction—Power Equipment Co., P. O. Box 1848
Hawaii, Honolulu—Edward R. Bacon of Hawaii, Ltd., P. O. Box 379
Idaho, Boise—Engineering Sales Service, Inc., P. O. Box 851
Idaho, Lewiston—Modern Machinery Co. of Idaho, Inc.
Idaho, Pocatello—Engineering Sales Service, Inc., 1900 Fifth
Mont., Billings—Industrial Equipment Co., P. O. Box 1396
Mont., Black Eagle—Power Equipment Co., P. O. Box 367
Nev., Elko—A-D Machinery Co., 251 W. Commercial St.
Nev., Reno—Reno Equipment Sales Co., P. O. Box 2428
N. Mex., Albuquerque—Harry Cornelius Co., P. O. Box 563
N. Mex., Roswell—Smith Machinery Co., P. O. Box 637
Ore., Medford—Cal-Ore Machinery Co., P. O. Box 232
Ore., Portland—Wood Tractor Co., 1033 S.E. Main St.
Utah, Salt Lake City—Kimball Equipment Co., P. O. Box 1103
Wash., Seattle—Western Tractor & Equipment Co., 745 Lucile St.
Wash., Seattle—Yukon Equipment, Inc., 327 Colman Bldg.
Wash., Spokane—Modern Machinery Co., Inc., P. O. Box 97, Parkwater Station

SCHMIDT LITHOGRAPH CO., 461 Second St., San Francisco, Calif.
Corrugated and fibre shipping boxes.
Branches
Calif., Fresno—216 Security Bank Bldg. FR 3-4536
Calif., Los Angeles—2405 W. Eighth St. DU 8-6101
Calif., Sacramento—1601 J St. HU 4-2709
Ore., Portland—320 Hughes Bldg. AT 1458
Wash., Seattle—800 Terminal Sales Bldg. EL 7462

SCHULTZ MATERIALS HANDLING CORP., 340 11th St., Richmond 5, Calif.
Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead, Trolleys (hoist).

SCREW CONVELOR CORP., 700 Hoffman St., Hammond, Ind.
Conveyors (continuous flow, screw), Elevators (belt, bucket, continous flow), Screw-Lifts, Screw-Veyors, Screw-Flo, Truck dumpers (hydraulic), Overhead truck lifts.
Branch
Calif., Santa Clara—1100 Richard Ave. CH 3-2276
Representatives
Calif., El Centro—W. H. Douthitt Steel & Supply, P. O. Box 220. EL 2-5701
Calif., Fresno—Commercial Mfg. & Supply, 2432 So. Railroad. AD 7-6101
Calif., Long Beach—Bay City Bearing Co., 709 W. 16th St. HE 2-5485
Calif., Sacramento—Capital Mach. & Welding Works, 83 No. 17th. GI 3-2556
Calif., Stockton—Guntert & Zimmerman Sales Div., P. O. Box 1688. HO 4-8712
Calif., Woodland—Woodland Mill Supply, P. O. Box 426. MO 2-3281
Ore., Portland—Reid-Strutt Co., Inc., S.E. 11th at Stark. BE 4-5011

SELMA TRAILER & MFG. CO., P. O. Box 120, Selma, Calif.
Trailers (hydraulic, tank, tilt bed and equipment), Baskets (vegetable, fruit), Axles (trailer custom-built).

SHARON STEEL CORP., see BRAINARD STEEL DIV.

SHAW-BOX CRANE & HOIST DIV., see **MANNING, MAXWELL & MOORE, INC., SHAW-BOX CRANE & HOIST DIV.**

SHEPARD NILES CRANE & HOIST CORP., Schuyler Ave., Montour Falls, N. Y.
Cranes (charging and drawing, gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I-beam overhead, locomotive overhead, monorail overhead, yard truck, tractor, transfer, underhung, grab bucket), Hoists (air, bucket, chain, crane, derrick, drum, electric, monorail, portable, skip, traveling, close clearance, base mounted, hot metal carriers), Winches and Windlasses.
Branches
Calif., Bell—6515 Salt Lake Ave. LO 5-6255
Calif., Emeryville—3637 Adeline St. OL 8-5411
Representatives
Utah, Salt Lake City—Modern Equipment Co., 52 W. Second So. St. Phone 9-2171
Wash., Seattle—Preston Faller, 1921 Minor Ave. MA 4256
B. C., Vancouver—J. H. Ryder Machinery Co., 2120 Main St.

SHERMAN PAPER PRODUCTS CORP. OF CALIF., 2001 No. Soto, Los Angeles 32, Calif.
Flexible and rigid paper packing materials, Bags (shipping), Tables (portable packing for dispensing materials).
Branches
Calif., Sacramento—1404 Greenhills Rd. IV 7-7339
Calif., San Francisco—90 Charter Oak Ave. DE 3-3671
Colo., Denver—416 So. Ogden Ct. PE 6671
Wash., Seattle—1523 Airport Way. MA 6838

SIGNODE STEEL STRAPPING CO., 2600 No. Western Ave., Chicago 47, Ill.
Steel Strapping, Tools and Accessories, Expendable Pallets, Retaining Strips and Doors, Adjusta-Paks

See advertisement on page 29

Branches
Ariz., Phoenix—210 W. Adams St. AL 8-5691
Calif., Los Angeles—659 E. Gage Ave. AD 3-6185
Calif., Pittsburg—Loveridge Rd. HE 9-9151
Colo., Denver—529 E. Ohio. PE 3-3898
Ore., Portland—1519 N.W. Irving St. CA 3-5327
Utah, Salt Lake City—2004 So. Eighth, E. EM 4-8353
Wash., Seattle—2 Hanford St. MU 2343
Wash., Spokane—617 Paulsen Bldg. MA 4-6211

SILENT HOIST & CRANE CO., 841 63rd St., Brooklyn 20, N. Y.
Cranes (yard, truck, tractor), Loaders (portable, self-propelled), Trucks (diesel fork, gasoline fork, gasoline industrial, gasoline lift), Winches and Windlasses.
Representatives
Calif., San Francisco—Hamerslag Equipment Co., 45 Elmira St. JU 7-1357
Calif., South Gate—Cost Reduction Equipment Co., 5200 Chakemco St. LO 7-2487
Idaho, Boise—Intermountain Equipment Co., P. O. Box 1129. Phone 3-6441
Mont., Missoula—Westmont Tractor & Equipment Co.
N. Mex., Albuquerque—R. L. Harrison Co., P. O. Box 1320. Phone 7-8811

SIMPLICITY ENGINEERING CO., 210 So. Oak St., Durand, Mich.
Conveyors (foundry, vibrating), Feeders (vibrating).
Branch
Calif., El Monte—Dick A. Aleshire, 2226 Rosemead Blvd. GI 8-5290
Representatives
Calif., Los Angeles—Snyder Foundry Supply Co., 2444 E. 57th St.
Calif., Oakland—Pacific Graphite Co., Inc., 40th and Linden Sts.
Ore., Portland—LaGrand Industrial Supply Co., 15 S. W. Arthur
Wash., Seattle—Carl F. Miller & Co., Inc., 1217 So. Sixth Ave.

SKAGIT STEEL & IRON WORKS, Sedro Wooley, Wash.
Winches, Windlasses, Hoists, Marine deck machinery.
Representatives
Calif., Chico—Sierra Tractor & Equipment, 1240 Park Ave.
Calif., Crescent City—Brizard-Matthews Machinery
Calif., Eureka—Brizard-Matthews Machinery, P. O. Box 77
Calif., Los Angeles—Smith Booth Usher Co., 2001 Santa Fe Ave.
Calif., Napa—Berglund Tractor & Equipment, 1016-18 Soscol Ave.
Calif., Oxnard—Wallace Machinery, 625 No. Oxnard
Calif., Redding—Sierra Tractor & Equipment
Calif., Santa Rosa—Berglund Tractor & Equipment
Calif., Willits—Berglund Tractor & Equipment
Colo., Denver—Western Machinery Co., 2400 W. 7th Ave.
Colo., Grand Junction—S & M Supply Co., 735 Fourth Ave.
Mont., Billings—Seitz Machinery Co., 420 No. 24th St.
Nev., Reno—Sierra Machinery Co., 307 Morrill Ave.
N. Mex., Albuquerque—R. L. Harrison Co., Inc., 1801 N. 4th St.
Ore., Arlington—Empire Machinery Co.
Ore., Astoria—Halton Tractor Co.
Ore., Coquille—Pape Bros., Inc.
Ore., Eugene—Pape Bros., Inc., 1865 W. 6th
Ore., Grants Pass—Cascade Industrial Supply
Ore., Klamath Falls, Cascade Industrial Supply, 515 Market St.
Ore., LaGrande—Inland Machinery Co., 212 Greenwood
Ore., Longview—Halton Tractor Co.
Ore., Pendleton—Empire Machinery Co., 1849 S.W. Court Ave.
Ore., Portland—Halton Tractor Co., 2439 N.W. 29th
Ore., Redding—Cascade Industrial Supply
Ore., Roseburg—Pape Bros., Inc.
Ore., Salem—Halton Tractor Co.
Ore., The Dalles—Empire Machinery Co.
Wash., Mt. Vernon—N. C. Machinery Co.
Wash., Port Angeles—N. C. Machinery Co.
Wash., Seattle—N. C. Machinery Co., 4233 W. Marginal Way
Wash., Spokane—Inland Diesel & Machinery, 3311 E. Trent
Wash., Wenatchee—Columbia Tractor Co., 239 No. Wenatchee

SPANMASTER CRANE DIV., JERVIS B. WEBB CO. OF CALIF., 9301 Rayo Ave., South Gate, Calif.
Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power overhead, I beam overhead, monorail overhead), Hoists (monorail), Trolleys.
Branches
Calif., San Francisco—2166 Market St. KL 2-2709
Utah, Salt Lake City—52 W. Second So. St., EL 9-2171
Wash., Seattle—P. O. Box 4086 Magnolia Station. MU 1058

SPAULDING FIBRE CO., INC., 310 Wheeler St., Tonawanda, N. Y.
Vulcanized fibre tote boxes, Barrels, Factory handling containers, Boxes, Trays, Factory trucks.
Branches
Calif., Berkeley—1780 Shattuck Ave. TH 5-7941
Calif., Los Angeles—1325 San Julian St. RI 8-7341

SPEEDWAYS CONVEYORS, INC., 202-08 Rhode Island St., Buffalo 13, N. Y.
Conveyors.
Representatives
Ariz., Phoenix—Naumann Lift Trucks, Inc., 2308 So. 11th St.
Calif., San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 7-1357
Calif., Tustin—J. C. Washington Co., P. O. Box 8.
Colo., Denver—Edwin F. DeLine Co., 224 W. Alameda Ave.
Utah, Salt Lake City—Salt Lake Hardware

SPRINGPORT STEEL PRODUCTS CO., 120 Willow St., Springport, Mich.
Basket (wire), Boxes for shipping (wire mesh), Pallets (wire mesh).
Representatives
Ariz., Phoenix—E. O. Flournoy Co., P. O. Box 3945. Al 2-8607
Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif., Los Angeles—McKinley Equipment Corp., 1557 Esperanza. AN 9-0567
Calif., San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd. JU 7-3157
N. Mex., Albuquerque—E. D. Flournoy Co.
Ore., Portland—Oregon Handling Equipment Co., 726 W. Grand. CA 8-4916
Wash., Seattle—Mechanical Handling Co., 1401 W. Garfield. GA 0200

SPS WESTERN DIV., STANDARD PRESSED STEEL CO., 2701 Harbor Blvd., Santa Ana, Calif.
Steel shelving, Erectomatic shelving.

SQUARE D CO. see **E C & M DIV., SQUARE D CO.**

STANDARD CONVEYOR CO., 320 N.W. 2nd St., No. St. Paul 9, Minn.
Conveyors (apron, automatic, bag, bale, belt, chain or link, continuous flow, foundry, gravity roller, live roller, pallet, portable, skate, slat).

See advertisement on page 76

Branches
Calif., Los Angeles—115 E. 23rd St. RI 1150
Wash., Seattle—P. O. Box 1655, Lake City Station
Representative
Calif., San Francisco—Acme Equip. Co., 801 Minnesota St.

STANDARD-KNAPP, DIV. OF EMHART MFG. CO., 127 Main St., Portland, Conn.
Automatic packing equipment.
Branch Offices
Calif., Los Angeles—2705 So. Figueroa St. RI 9-6641
Calif., San Mateo—444 Peninsular Ave. DI 2-3258
Wash., Seattle—3222 Western Ave. AL 3390

STANDARD PRESSED STEEL CO. see **SPS WESTERN DIV., STANDARD PRESSED STEEL CO.**

STANLEY WORKS, STEEL STRAPPING DIV., 1300 Corbin Ave., New Britain, Conn.
Steel strapping.

See advertisement on page 61

Branches
Calif., Los Angeles—108 W. Sixth St. TR 6795
Calif., San Francisco—681 Market St. (Monadnock Bldg.) YU 6-5914
Wash., Seattle—105 Second St. No. MA 5773
Representative
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5296

STAR IRON & STEEL CO., 435 E. 11th St., Tacoma, Wash. MA 9133
Cranes (charging and drawing, gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Grapples.

STAR MACHINE & TOOL CO., 201 S.E. Sixth St., Minneapolis 14, Minn.
Hydraulic cranes (portable floor and truck mounting, hand and electric pump operated).
Representatives
Calif., El Monte—L. W. Swenson, 517 Laurelhurst Dr.
Calif., San Francisco—David E. Dion, 106 San Jose Ave.
Calif., Los Angeles—Fornaciari Co., 5350 E. Washington Blvd. AN 9-7595
Colo., Denver—Hendrie & Bolthoff, 1635 17th St.
Utah, Salt Lake City—M. H. Miller Co., 1707 So. 15th E.

STEARNS ELECTRIC CORP., 120 No. Broadway, Milwaukee 2, Wis.
Magnets, Pulleys (magnetic) Clutches, Brakes.
Representatives
Ariz., Phoenix—35 E. Pierson St. Phone 5-0019
Calif., Los Angeles—2709 So. Hill St. RI 7-0538
Calif., San Francisco—427 Bryant St. SU 1-4738
Colo., Denver—1626 Wazee St. AC 2-2741
Ore., Portland—708 N.E. Second Ave. BE 2-2197
Utah, Salt Lake City—101 W. Second St. EM 3-8878
Wash., Seattle—422 First Ave. W. EL 6361
Wash., Veradale—311 No. Adams

STEPHENS-ADAMSON MFG. CO., 85 Ridgeway Ave., Aurora, Ill.
Belting (conveyor), Car Pullers, Centrifugal loaders for bulk material, Conveyors (apron, automatic, bag, bale, belt, bucket, chain or link, continous flow, drag, flight, foundry, gravity roller, live roller, screw, slat, vertical, vibrating, zipper, special and other), Elevators (belt, bucket, continuous flow), Hoists (bucket, electric, skip), Pulleys (conveyor), Rollers (conveyor), Winches and Windlasses.

See advertisement on page 34

Branches
Ariz., Phoenix—1625 E. Camelback Rd. AM 6-5990
Calif., Los Angeles—2227 E. 37th St. LU 3-1511
Calif., San Francisco—145 Mission St. GA 1-8666
Colo., Denver—320 Denver Club Bldg. AL 5-0533
Utah, Salt Lake City—210 W. 33rd So. Phone 6-8683
Wash., Seattle—714 Jos. Vance Bldg. MU 3963
Representatives
Ariz., Phoenix—Semon Bearing & Supply Co., 325 N. Third Ave. AL 8-7566
Calif., Los Angeles—Degen-Fiege Co., 4559 E. Shelia St. AN 9-0781
Utah, Salt Lake City—C. H. Spencer & Co., P. O. Box 1054

STOKER, H. L., CO., P. O. Box 112, Claremont, Calif.

Automatic bag packers (valve and open mouth), Drum packers.

Representatives

Canada, Vancouver, B. C.—General Sales Syndicate of Canada, 470 Graville St.
Calif., San Francisco—Industrial Vibrator and Machinery Co., 7 Front St.
Colo., Littleton—Byerrum Engineering Sales Co., P. O. Box 105
Wash., Seattle—Fred C. Graves Co., 418 Eighth Ave., No.

STORAGE PRODUCTS CORP., 4400 Oakton St., Skokie, Ill.

Adjustable storage racks.

Representatives

Calif., Los Angeles—Speedrack, 7260 Melrose. WE 4-3813
Calif., Pomona—L. J. Sanderson, P. O. Box 56. LY 9-8405
Calif., San Diego—Kenneth Smith, 1670 Fourth Ave. BE 3-6143
Calif., San Francisco—James A. Old & Son, 325 Fifth St. SU 1-1100
Ore., Portland—Air Mac, Inc., 1111 S.E. Grand Ave. BE 4-6524
Wash., Seattle—Air Mac, Inc., 3838 4th Ave. MU 3888
Wash., Spokane—Air Mac, Inc., P. O. Box 1125. KE 5-2065

STREETER-AMET CO., Grays Lake, Ill.

Scales (industrial).

Branch Office

Calif., Los Angeles—10357 W. Pico. BR 2-3723

STURDI-BILT ENGINEERING CO. 2501 Peterson Ave., Chicago 45, Ill.

Bins (bulk storage), Racks (pallet, storage, dies, skids, bulk).

Representatives

Calif., Los Angeles—M. E. Canfield Co., 419 E. Third St. MA 6-6606
Calif. Los Angeles—Green-Penny Co., 421 E. Washington Blvd. RI 9-9196
Calif., Oakland—Green-Penny Co., 2211 San Pablo Ave. GL 1-8555

SULLIVAN, ED, EQUIPMENT ENGINEERING SERVICES, 672 So. Lafayette Park Pl., Los Angeles 57, Calif. DU 7-8521

Baskets (wire, plastic), Bins (wire), Tote boxes (plastic), Racks (pallet, storage, other), Slings (wire rope), Trucks (die handling, dolly, sheet handling, skid handling), Missile handling equipment.

H. C. SWEET CO., 56861 Grand River Ave., New Hudson, Mich.

Floriine marking machines.

Representatives

Calif., Oakland—Allied Paper & Janitorial Supplies
Calif., South Gate—Cost Reduction Equipment Co., 5200 Chakemco St.
Ore., Portland—Ken. R. Humke, 207 N.W. 14th St.

SWING SHIFT MANUFACTURING CO., P. O. Box 111, Longview, Wash.

Trucks (electric fork, gasoline fork), Swinging and Shifting hydraulic fork control for industrial lift trucks. Company also manufactures a line of Side Shifting Units for lift trucks.

Representatives

(Sold and serviced through most Western fork lift truck distributors.)

TALLER & COOPER, INC., 75 Front St., Brooklyn 1, N. Y.

Scales (automatic, counting, warehouse).

Branch Office

Calif., Menlo Park—481 La Mesa Dr.

Representatives

Calif., Los Angeles—American Electronics, Inc., 655 W. Washington Blvd.
Calif., Los Angeles—F. Somers Peterson Co., 1501 Maple Ave. RI 9-6151
Calif., San Francisco—F. Somers Peterson Co., 157 13th St. MA 1-2255
Colo., Denver—Peterson Co., 4949 Colorado Blvd.

TAYLOR MFG. CO., 2114-24 W. Ball Rd., Anaheim, Calif. KE 5-6021

Carts (hand, push, electric), Trucks (industrial electric, personnel).

Representatives

Calif., Altadena—Meadows Bros., 3184 No. Lake. SY 7-1171
Calif., San Diego—H. Pannier, 3676 Fairmount. TA 5616
Calif., San Francisco—Elder & Co., 333 Seventh St. UN 1-5480

TECHNIBILT CORP., 905 Air Way, Glendale 1, Calif.

Baskets (wire), Carts (hand and push, nesting wire basket), Casters, Scales (counting, portable, warehouse), Trucks (factory and warehouse, hand), Wheels (hand truck, rubber tired), Electronic handling equipment.

Branches

Ariz., Phoenix—601 So. 2nd St. YE 7-8085
Calif., San Carlos—715 Old County Rd. LY 3-9407
Calif., Glendale—905 Air Way. CH 5-2338

Representatives

Ore., Portland—Birkenwald Co., 310 N.W. Fifth Ave. CA 8-1342
Wash., Seattle—Birkenwald, Inc., 2515 Fourth Ave. EL 6500
Wash., Spokane—Birkenwald, Inc., E. 4230 Mission Ave. MA 1818

TEMPLETON, KENLY & CO., 16th and Gardner Rd., Broadview, Ill.

Jacks (hydraulic, lift, screw, other).

Branches

Calif., Concord—Wm. H. Zepp, 720 Bancroft Rd.
Calif., Los Angeles—c/o William S. Pine, 1635 E. 22nd St.

Representatives

Ariz., Douglas—Phelps-Dodge Corp.
Ariz., Phoenix—Arizona Hardware Co., 47 E. Jackson
Ariz., Phoenix—Pratt-Gilbert Hardware Co., 701 So. Seventh St.
Calif., Bakersfield—Hopper Machine Works, Inc., 301 26th St.
Calif., Long Beach—American Wholesale Hardware Co., 1500 W. Anaheim
Calif., Los Angeles—Bethlehem Supply Co. of Calif., P. O. Box 3128.
Calif., Los Angeles—California Hardware Co., 500 E. First St.
Calif., Los Angeles—Ducommun Metals & Supply Co., 4890 So. Alameda St.
Calif., Los Angeles—Fornaciari Co., 5350 E. Washington Blvd.
Calif., Los Angeles—Howard Supply Co., 5125 Santa Fe Ave.
Calif., Los Angeles—Oil Well Supply Co., 4900 Santa Fe Ave.
Calif., Los Angeles—Republic Supply Co. of California, 2600 So. Eastland Ave.
Calif., Los Angeles—J. G. Tucker & Son, 455 E. Third St.
Calif., Los Angeles—Union Hardware & Metals Co., 5555 Ferguson Dr.
Calif., Sacramento—L & G Specialties, 207 O St.
Calif., Sacramento—Thomson Diggs Co., 3rd and R Sts.
Calif., San Diego—Gould Hardware & Machinery Co., 2212 Main St.
Calif., San Diego—Western Metal Supply Co., 215 Seventh Ave.
Calif., San Francisco—Edward R. Bacon Co., 2101 Folsom St.
Calif., San Francisco—C. H. Bull Co., 115 Tenth St.
Calif., San Francisco—Gilmore Steel & Supply Co., 840 Brannan St.
Calif., San Francisco—A. J. Glesener Co., 975 Bryant St.
Calif., San Leandro—Republic Supply Co. of California, 1919 Williams St.
Calif., Torrance—National Supply Co. of California, 1524 Border Ave.
Colo., Denver—Mine & Smelter Supply Co., 3800 Race St.
Idaho, Boise—Intermountain Equipment Co., Broadway and Myrtle Sts.
Idaho, Pocatello—Intermountain Equipment Co., Broadway & Myrtle Sts.
Idaho, Wallace—Coeur d'Alene Hardware & Foundry Co.
Mont., Billings—Great Northern Tool & Supply Co., 2224 Minnesota Ave.
Mont., Butte—Hall-Perry Machinery Co., 802 E. Iron St.
Mont., Butte—Montana Hardware Co., 823 So. Montana St.
Mont., Great Falls—Carl Weissman & Sons, Inc., 300 Third Ave.
Mont., Kalispell—Westmont Tractor & Equipment Co., 55 Third Ave., N. E.
Nev., Reno—Sierra Machinery Co., 307 Morrill Ave.
N. Mex., Albuquerque—Contractors Equipment & Supply Co., 707 Broadway, N. E.
N. Mex., Albuquerque—R. L. Harrison Co., Inc., 1801 Fourth St., N. W.
N. Mex., Albuquerque—J. Korber & Co., 200 Second St., N. W.
N. Mex., Albuquerque—Lively Equipment Co., 2601 4th St. N.W.
N. Mex., Artesia—Allied Supply Co., Box 217.
N. Mex., Artesia—Union Supply Co., Inc.
N. Mex., Carlsbad—Union Industrial Corp., 112 E. Mermod St.
Ore, Astoria—Fisher Brothers Co., 1210 Marine Dr.
Ore., Corvallis—Rosser's Hardware Co., 341 So. Second St.
Ore., Klamath Falls—Lorenz Co., 1335 So. 6th St.
Ore., Portland—J. E. Haseltine & Co., Second Ave. and Ash St.
Ore., Portland—Northern Wholesale Hardware Co., 805 N.W. Glisan St.
Utah, Salt Lake City—Industrial Supply Co., 131 Social Hall Ave.
Utah, Salt Lake City—Mine & Smelter Supply Co., 121 W. Second So. St.
Wash., Seattle—Glenn Carrington Co., 91 Columbia St.
Wash., Seattle—Campbell Industrial Supply Co., 3433 Airport Way
Wash., Seattle—Clyde Equipment Co., 3410 First Ave.
Wash., Seattle—Peterson Wholesale Hardware Co., 5422 Shilshole Ave.
Wash., Seattle—Seattle Hardware Co., 501 First Ave.
Wash., Seattle—Star Machinery Co., 241 Lander St.
Wash., Seattle—Yukon Equipment, Inc., 327 Colman Bldg.
Wash., Spokane—J. E. Haseltine & Co., 1101 No. Division
Wash., Spokane—Intermountain Equipment Co., 611 E. Sprague Ave.
Wash., Spokane—Towne Equipment Co., 622 No. Montor St.
Wash., Tacoma—Hunt & Mottet Co., 2112 Pacific Ave.
Wash., Yakima—Yakima Hardware Co., 226 So. First Ave.

THERMOID CO., Trenton, N. J.

Belting (conveyor, elevator, endless), Slings (belt).

Branches

Calif., Los Angeles—1100 So. Santa Fe Ave. TR 8603
Calif., San Francisco—544 Second St. YU 2-4141
Colo., Denver—724 W. Colfax St. CH 4-2300
Ore., Portland—3939 N.W. St. Helens Rd. CA 2-9765
Utah, Nephi—Thermoid Western. Phone 424W

Representatives

Calif., Los Angeles—H. J. Klier, 1100 So. Santa Fe Ave. TR 8603
Calif., Mt. View—R. H. Nielson, 13158 Dierlex Dr. YO 7-0211
Calif., North Hollywood—J. W. Beard, 11723 Otsego St. ST 7-6174
Calif., San Francisco—G. J. Klier, 3080 Jackson St. JO 7-9975
Calif., San Francisco—O. J. Sand, 544 Second St. YU 2-4141
Calif., West Covina—J. W. Minnock, 1258 So. Butterfield Rd. ED 2-7340
Colo., Denver—Roy Wanamaker, 446 Cook St. DU 8-2349
Ore., Portland—Gordon Sodorff, 3939 N.W. St. Helens Rd. CA 2-9765
Utam, Salt Lake City—R. H. Hancock, 957 So. Eighth St. EL 9-2579
Wash., Seattle—H. W. Hobbs, 3021 E. 135th St. EM 6024

THERN MACHINE CO., 3760 W. Fourth St., Winona, Minn.

Hoists (chain, lever), Truck (hand lift), Winches and Windlasses.

Representatives

Calif., Oakland—Denaham Sales Service, 293 26th St.
Ore., Eugene—King Vanderbelt Sales Co., 48 18th Ave., W.
Utah, Ogden—H. S. Locke & Associates, P. O. Box 1282

THEW SHOVEL CO., E. 28th St. & Fulton Rd., Lorain, Ohio

Power shovels, Cranes, Clamshells, draglines, Hoes, Mete-cranes, Self-Propelleds.

District Sales Managers

Calif., San Francisco—1660 Russ Bldg. YU 6-1928
Ore., Portland—5217 N. E. 35th Pl. GA 7255

Representatives
Ariz., Phoenix—Lee Redman Equipment Co., 610 So. 19th Ave.
Calif., Los Angeles—Santa Fe Equipment Co., 3000 Santa Fe Ave.
Calif., San Bernardino—Santa Fe Equipment Co., 867 Colton Ave.
Calif., San Francisco—Coast Equipment Co., 444 Eighth St.
Colo., Durango—McCoy Co.
Colo., Denver—McCoy Co., 6000 Colorado Blvd.
Colo., Grand Junction—McCoy Co., P. O Box 158
Colo., Pueblo—McCoy Co., 214 E. Ilex
Colo., Sterling—McCoy Co., P. O. Box 871
Idaho, Boise—Southern Idaho Equipment Co., 204 E. Myrtle St.
Idaho, Idaho Falls—Southern Idaho Equipment Co., P. O. Box 1181
Idaho, Twin Falls—Southern Idaho Equipment Co., 129 Washington St. No.
Mont., Billings—Nash-Davis Machinery Co., 509 No. 27th St.
Mont., Bozeman—Nash-Davis Machinery Co., 109 No. Rouse St.
Mont., Glasgow—Tractor & Equipment Co., P. O. Box 547
Mont., Great Falls—Central Machinery Co., 721 Second St. So.
Mont., Havre—Central Machinery Co., P. O. Box 1231
Mont., Kalispell—Mountain Tractor Co., Third Ave. E and Railroad
Mont., Lewistown—Central Machinery Co., First Ave. No. and Evelyn St.
Mont., Miles City—Tractor & Equipment Co., P. O. Box 60
Mont., Missoula—Mountain Tractor Co., 1345 W. Broadway
Mont., Sidney—Tractor & Equipment Co., 201 No. Central
Nev., Reno—General Equipment Co., 1501 E. Second Ave.
N. Mex., Albuquerque—New Mexico Equipment Co., 2222 Broadway E.
Ore., Eugene—Interstate Tractor & Equipment Co., P. O. Box 192
Ore., Portland—Interstate Tractor & Equipment Co., 2855 N.W. Front Ave.
Utah, Salt Lake City—Atlas Equipment Co., 1411 So. Redwood Rd.
Wash., Spokane—Andrews Equipment Service, 126 So. Walnut St.
Wyo., Casper—Wortham Machinery Co.
Wyo., Cheyenne—Wortham Machinery Co., 51[illegible] W. 17th St.
Wyo., Greybull—Nash-Davis Machinery Co., Sixth and Eighth Sts.
Wyo., Sheridan—Wortham Machinery Co.
Wyo., Rock Springs—Wortham Machinery Co.

THISTLE ROLLER & MFG. CO., 2419 So. Connor St., Los Angeles, Calif. AN 2-2108
Rollers (conveyor, other), Rubber bonding, Wheels (general industrial).
Branch
Calif., Walnut Creek—21 Boulevard Ct. YE 5-5962

THOMAS TRUCK & CASTER CO., 1830 So. Seventh St., Keokuk, Iowa
Casters, Jacks (lift), Skids, Tires (industrial truck and trailer), Trailers (factory and warehouse), Trucks (bag, barrel, drum, box type, dolly, factory and warehouse, hand), Wheels (general industrial, hand truck, rubber tired, trailer).
Representatives
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Calif., San Francisco—Warehouse Equipment & Supply, 634 Polk St. PR 5-3766
Ore., Portland—Pacific Northwest Agents, 646 N. Thompson. AT 4-7950
Wash., Seattle—Pacific Northwest Agents, 1016 First Ave. So. EL 5006
Wash., Spokane—Standard Cycle & Supply, 1811 E. Sprague Ave. LA 1321

THOR POWER TOOL CO., 175 N. State St., Aurora, Ill.
Hoists (air).
Branches
Calif., Los Angeles—6200 Slauson Ave. RA 3-3191
Calif., San Francisco—315 S. Van Ness Ave. UN 1-2045
Colo., Denver—2704 W. Eighth Ave. AL 5-3668
Wash., Seattle—414 8th Ave. No. MU 0591

TOLEDO METAL FURNITURE CO., 1100 Hastings St., Toledo 7, Ohio
Chairs (for all types of packaging, inspection and assembly operations).
Representatives
Calif., Los Angeles—Wayne Jurnigan & Assoc., 1406 So. Grand
Calif., San Francisco—Wayne Journigan & Assoc., Tilden Bldg., 420 Market St.
Colo., Denver—O. A. Gregory, 2011 Glenarm, Room 207.

TOLEDO SCALE CO., 1105 Telegraph Road, Toledo 1, Ohio
Scales (automatic, conveyor, counting, monorail, packaging, portable, warehouse, motor truck).
Branches
Calif., Los Angeles—1115 So. Hope St.
Calif., Oakland—2600 West St.
Calif., San Francisco—1665 Hudson St.
Ore., Portland—1405 S.W. Fourteenth Ave.
Representatives
Ariz., Phoenix—H. E. Eash, 2342 W. Buckeye Rd.
Ariz., Tucson—P. W. Henry, 3365 No. Stone Ave.
Calif., Fresno—L. I. Baker, Jr., 917 N St.
Calif., Sacramento—Albert O. Fiske, 3413 Broadway
Calif., San Diego—Robert R. Perry, 2020 Market St.
Calif., San Jose—C. L. Coon, 333 Prevost St.
Calif., Santa Rosa—A. N. Nicholson, 305 Sebastopol Ave.
Calif., Stockton—John L. Sullivan, 1435 E. Miner Ave.
Colo., Denver—D. D. Craw, 1942 Arapahoe St.
Idaho, Boise—D. M. Dove, 3011 State St.
Mont., Billings—H. Beckerini, 1104 N. 26th St.
Mont., Butte—R. A. Morgan, 3016 Ottawa St.
Mont., Great Falls—M. C. Anderson, 3415 Second Ave. No.
Nev., Reno—Ray Seher, 140 Vesta St.
N. Mex., Albuquerque—O. C. Bare, 4100 Edith St., N.E.
Utah, Salt Lake City—R. J. Davis, 155 E. First So. St.
Wash., Seattle—M. D. Morgan, 415 Bell St.
Wash., Spokane—D. C. Anderson, 211 W. Trent St.
Wash., Yakima—L. D. Riley, 105 So. First St.

TON-TEX CORP., 247 Pearl St., N. W., Grand Rapids 2, Mich.
Belting (composition, conveyor, fabric, canvas, elevator, endless), Belt fasteners, Belt lacing, Slings (belt, canvas).
Branch
Calif., San Jose—1180 Auzerais Ave.

TOTE SYSTEM, INC., 700 So. Seventh St., Beatrice, Neb.
Bins, Tote boxes.
Representatives
Calif., Pasadena—Empire Engineering Co., 385 E. Green St. RY 1-6178
Wash., Seattle—Masterson's Equipment Supply, 2760 Westlake No. GA 0245

TOWMOTOR CORP., 1226 E. 152nd St., Cleveland 10, Ohio
Yard cranes, Tractors (diesel, gasoline warehouse), Trucks (bag, barrel, drum, box type, die handling, elevating and lifting, factory and warehouse, diesel fork, gasoline fork, hand motorized, gasoline lift, hand-electric lift, pallet, sheet handling, skid handling, other)

See advertisement on page 26

Branch
Calif., Oakland—699 Fourth St. TW 2-3668
Representatives
Ariz., Phoenix—E. D. Flournoy Company, 3825 W. Indian School Rd.
Calif., Fresno—Valley Fork Lift Sales Co., 2424 So. Railroad Ave.
Calif., Los Angeles—Irving G. King and Company, 821 Mateo St.
Calif., Oakland—Towmotor Corporation, 699 Fourth St.
Calif., San Diego—Irving G. King and Company, 1646 India St.
Calif., San Jose—Towmotor Corporation, 1230 No. 13th St.
Colo., Denver—Case Material Handling Co., 2855 W. 8th Ave.
Ore., Eugene—Air-Mac, Inc., 375 5th E.
Ore., Portland—Air-Mac, Inc., 1111 S.E. Grand
Texas, El Paso—E. D. Flournoy Company, 1224 E. Missouri St.
Utah, Ogden—The Horsley Company, 2416 Grant Ave.
Wash., Seattle—Air-Mac, Inc., 3838 4th Avenue, So.
Wash., Spokane—Air-Mac, Inc., E. 3710 Trent Ave.
Wash., Tacoma—Air-Mac, Inc., 1003 Washington Bldg.
Wash., Yakima—Air-Mac, Inc., 313 No. Grandview

TOWNER MANUFACTURING CO., 2111 West 17th St., Santa Ana, Calif.
Towner tow system of palletized transportation.

TRACTOMOTIVE CORP., County Line Rd., Deerfield, Ill.
Loaders (portable, self propelled), Tractors (diesel, gasoline warehouse).
Representatives
Ariz., Phoenix—Neil B. McGinnis Equipment Co., 500 So. Central Ave. AL 8-5391
Calif., Bakersfield—San Joaquin Tractor Co., 1201 Union Ave. FA 4-4517
Calif., Berkeley—West Coast Engine & Equip. Co., 1081 Eastshore Hwy. LA 5-2261
Calif., Los Angeles—Shaw Sales & Service Co., 5100 Triggs St. AN 1-7141
Calif., Redding—Shasta Truck & Equipment Sales, P. O. Box 985. Phone 47
Calif., Sacramento—Industrial Tractor Sales, 903 Del Paso Blvd. WA 5-8525
Calif., San Diego—Construction Machinery Co., 2175 Newton Ave. BE 9-4143
Colo., Denver—Power Equipment Co., 3440 Brighton Blvd. KE 4-4221
Idaho, Boise—Southern Idaho Equipment Co. of Boise, Inc., 204 E. Myrtle. Phone 3-6409
Idaho, Idaho Falls—Southern Idaho Equipment Co., No. Yellowstone Hwy. Phone 2810
Mont., Billings—Seitz Machinery Co., 420 No. 24th St. Phone 2-2103
Mont., Missoula—Mountain Tractor Co., 1645 W. Broadway. Phone 6-6651
Nev., Elko—A-D Machinery Co., 251 W. Commercial. Phone 92
Nev., Reno—Reno Equipment Sales Co., 1510 W. Fourth St. Phone 2-7025
N. Mex., Albuquerque—Harry Cornelius Co., 1510 Second St. Phone 3-1776
N. Mex., Roswell—Smith Machinery Co., 512 E. Second St. MA 2-1812
Ore., Medford—Haupert Tractor Co., 3610 No. Pacific Hwy. 2-5279
Ore., Portland—Wood Tractor Co., 5241 N.E. 82nd Ave. AT 8-5521
Ore., Springfield—Timber Tractor Co., 2600 Main St. RI 7-2724
Utah, Salt Lake City—Cate Equipment Co., 49 E. Ninth So. St. Phone 9-2021
Wash., Seattle—Pacific Hoist & Derrick Co., 3200 Fourth Ave., So. EL 1860
Wash., Spokane—American Machine Co., 1026 W. Broadway. FA 2591
Wash., Wenatchee—Mid-State Equipment Co., 313 No. Mission St. NO 2-7151
Wyo., Casper—Studer Tractor & Equipment Co., P.O. Box 779. 2-5381

TRUCK-MAN DIV., THE KNICKERBOCKER CO., 603 Liberty St., Jackson, Mich.
Trucks (fork, gasoline; pallet; skid handling).
Representatives
Calif., San Francisco—P. F. O'Donnell Co., 2295 Jerrold Ave. AT 8-6382
Colo., Denver—J. D. Whiting, 4135 Quitman St. GR 7-2134
Wash., Seattle—Materials Handling Equip. Co., 2963 First Ave. So.
Wash., Vancouver—Columbia Machine, Inc., 107 So. Grand Ave. OX 4-1501

TUBE-STRUT CORP., 2960 Marsh St., Los Angeles 39, Calif.
Racks (pallet, storage, general purpose), Hoists (hydraulic, portable).
Representatives
Ariz., Phoenix—Waco Scaffold & Equipment Co., 2405 E. Jackson. BR 5-4561
Calif., Los Angeles—Green-Penny Co., 421 E. Washington Blvd.
Calif., Los Angeles—Material Equipment Supply Co., 1358 So. Grand Ave.
Calif., Oakland—Green-Penny Co., 2211 San Pablo Ave. GL 1-8555
Calif., South San Francisco—Hamerslag Equipment Co., 110 Freeway Blvd.
Colo., Denver—Murray Sales Co., 16 Wazee Market. KE 4-5296
Ore., Portland—Hallidie Machinery Co., 1915 N.E. Union. BE 4-7491
Wash., Seattle—Hallidie Machinery Co., 210 Hudson St.
Wash., Seattle—Mechanical Haidling Co., 1401 W. Garfield St.
Wash., Spokane—Liftco, Inc., 4324 E. Trent St.

TUBULAR STRUCTURES CORP. OF AMERICA, 2960 Marsh St., Los Angeles 39, Calif.

Elevators (portable tiering), Hoists (hydraulic, portable).

Representatives

Ariz., Phoenix—Waco Scaffold & Equipment Co., 2405 E. Jackson. BR 5-4561
Calif., Fresno—Ray J. Wayte Co., 1869 Hedges Ave.
Calif., Los Angeles—Waco-May Co., 2960 Marsh St. NO 3-3921
Calif., San Diego—Southern Equipment & Supply Co., 2025 E. Harbor Dr. BE 2-6123
Calif., San Francisco—Lawrence Myers & Co., 61 Bluxome St. DO 2-3715
Calif., Stockton—Waco Scaffold & Equipment Co., 2092 So. El Dorado. Phone 5-0216
N. Mex., Albuquerque—New Mexico Equipment Co., 2222 So. Broadway. Phone 3-5576
Wash., Seattle—Middleman Corp., 3416 Interlake
Wash., Spokane—Ferris Equipment Co., E. 3823 Trent Ave. KE 0661

TULSA WINCH DIV., VICKERS, INC., 815 E. First St., Tulsa 20, Okla.

Winches and Windlasses, Power take-offs.

Representatives

Ariz., Phoenix—Welch Mfg. Co., 533 W. Jefferson. AL 8-0276
Calif., Los Angeles—Standard Auto Body Co., 4900 So. Soto St. LO 8-1471
Calif., Lynwood—Rankin Brothers, 11090 So. Alameda. NE 6-1929
Calif., Perkins—Clarks Welding Works, Folsom Blvd. at Perkins. HI 5-2714
Calif., San Francisco—Modern Vehicle Co., 2044 Bryant St. AT 2-7414
Colo., Denver—The Winter Weiss Co., 2201 Blake St. MA 3-6233
Idaho, Boise—The Lang Co., 420 No. Curtis Rd. Phone 3311-W
Mont., Great Falls—Smith Equipment Co., 820 Ninth St. No. Phone 2-1713
Mont., Kalispell—Industrial Supply Div., Forest Products Co., 175 N. E. Railroad St. Phone 5900
N. Mex., Albuquerque—M & F Equipment Co., 824 Arno N.E. 3-3793
N. Mex., Hobbs—Watson Truck & Supply, P. O. Box 1228. Phone 3-3161
Ore., Eugene—Western Equipment Co., 1360 W. First St. EU 4-4265
Ore., Portland—Western Equipment Co., 2244 N.W. Savier St. AT 4128
Utah, Salt Lake City—The Lang Co., First So. and Second W. DA 8-3341
Wash., Seattle—Transport Trailer & Equipment Co., 3400 Sixth Ave. So. MU 2226
Wash., Spokane—Andrews Equipment Service, 126 So. Walnut. MA 3155
Wyo., Casper—Emrick & Hill Engine & Equipment Co., 1701 E. Yellowstone. Phone 2-5341

TUTHILL PUMP CO., 939 E. 95th St., Chicago 19, Ill.

Pumps (rotary).

Representatives

Calif., Los Angeles—Wagner Hydraulic Equipment Co., 10814 Santa Monica Blvd. BR 2-2091
Calif., San Francisco—E. D. Sweetland Co., 151 Mission St. GA 1-2663
Calif., San Francisco—Westco Pump Sales Co., 85 Industrial St. VA 6-5104
Ore., Portland—John O'Brien Co., 7008 Interstate. BU 5444
Wash., Seattle—Atlas Equipment Co., 620 Maynard Ave. MU 6232
Wash., Seattle—E. D. Sweetland Co., White-Henry-Stuart Bldg. MA 2-1015

UHRDEN, INC., 508 Grand St., Dennison, Ohio

Hydraulic dumpers, Hydraulic floor and truck cranes, Power stockers, Manually operated stockers, Portable elevators, Hand trucks.

Representatives

Calif., Los Angeles—Irving G. King & Co., 821 Mateo St.
Calif., San Francisco—Stryco Mfg. Co., 470 Natoma St.

UNION CHAIN & MFG. CO., Edgewater Ave., Sandusky, Ohio

Chains, Conveyors (apron, bucket, chain or link, drag, flight, slat), Elevators (bucket), Wheels (conveyor).

Branch

Ore., Portland—208 S.W. Stark St. CA 8-9211

Representatives

Calif., Los Angeles—American Chain & Gear Co., 2451 E. 57th St. LU 1-7215
Calif., San Francisco—Charles A. Fowler Co., 979 Bryant St. UN 3-5010
Colo., Denver—Allen Bearings Supply Co., Inc., 4965 Jackson St. FL 5-3563
Ore., Portland—Munnell & Sherrille, Inc., 1163 N.E. 63rd Ave. AT 1-0021
Wash., Seattle—Bearing Engineering & Supply Co., 2548 Airport Way. MA 2744

UNION METAL MFG. CO., THE, 1432 Maple Ave. N.E., Canton 5, Ohio. GL 4-6111

All steel corrugated skid platforms, boxes, skid boxes, pallets, racks, Work-O-Matic system.

Representatives

Ariz., Phoenix—Kistler Ind. Service, 902 So. Central Ave. AL 2-7217
Calif., Los Angeles—W. T. Billard, Inc., 734 E. Third St. MI 2659
Calif., Los Angeles—Pacific Union Metal Co., 3248 Long Beach Ave. AD 4-0183
Calif., Oakland—Roll-Rite Corp., 801 Jefferson St. GL 1-5921
Colo., Denver—Material Handling Equip. Co., 1795 Sheridan Blvd. BE 7-0433
Utah, Salt Lake City—Modern Equip. Co., 52 W. Second So. St. EL 9-2171
Wash., Seattle—E. C. Hanselpacker & Co., 92 Battery St. EL 0560

UNION STEEL PRODUCTS CO., Berrien St., Albion, Mich.

Baskets (metal, wire), Boxes for shipping (wire), Conveyors (chain or link), Pallets (wire), Racks (storage, storage container).

Representatives

Ariz., Phoenix—Naumann Lift, 2308 So. 11th Ave. AL 8-8951
Calif., Fresno—Gray Lift, P. O. Box 1066. Phone 6-0169
Calif., Los Angeles—R. H. Braun Co., 5519 Jillson St. RA 3-6381
Calif., San Francisco—Western Ind. Equipment Co., 420 Market St. SU 1-4757
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

UNION WIRE ROPE CORP., 21st and Manchester Ave., Kansas City 26, Mo.

Slings (wire rope), Wire Rope.

Branch

Calif., Sacramento—903 Del Paso Blvd. WA 5-5124
Colo., Denver—No. 2 Santa Fe Dr. AC 2-1110
Ore., Portland—1637 N.W. 14th Ave. CA 7-0475

UNISTRUT PRODUCTS CO., Washington Blvd., Chicago 7, Ill.

Racks (pallet, storage, other).

Branches

Calif., Beverly Hills—P.O. Box 3291, Olympic Station. BR 2-6203
Colo., Colorado Springs—P. O. Box 1488

Representatives

Ariz., Phoenix—Western Specialty Co., 18 E. Lincoln St. AL 4-1866
Calif., Berkeley—Unistrut Sales of No. Calif., 1000 Ashby Ave. TH 3-4964
Calif., Los Angeles—Glenmart Co., 6440 E. Corvette St. RA 3-8221
Calif., Sacramento—A. W. Herron Co., 215 12th St. GI 3-4621
Colo., Denver—Landes, Zachary & Peterson, 275 Kalamath St. MA 6203
Colo., Grand Junction—Landes, Zachary & Peterson, 2701 So. Hwy. 50. Phone 1609
Mont., Helena—Builders Supply Co., P.O. Box 186. Phone 469
Ore., Portland—The Brower Co., 1616 N.W. Glisan St. CA 8-3494
Utah, Salt Lake City—Pace-Turpin & Co., 726 So. Third W. St. DA 2-5595
Wash., Seattle—The Brower Co., 114 Virginia St. MU 0464

UNIT CRANE & SHOVEL CORP., 6411 W. Burnham St., Wilwaukee 19, Wis.

Clamshells, Draglines, Shovels, Trenches, Magnets (crawler, mobile or truck mounted), ½ to ¾-yard excavators, Cranes up to 35 ton (gasoline or diesel).

Representatives

Ariz., Phoenix—O. S. Stapley Co., 723 Grand Ave. AL 3-2121
Calif., Los Angeles—Garlinghouse, Fremon & Co., 6046 E. Washington Blvd. RA 3-8686
Calif., Redding—Shasta Truck & Equip. Sales, So. 99 Hwy. Phone 47
Calif., Sacramento—Herman Combs, 4440 Carbrillo Way. GL 7-9857
Calif., Sacramento—Industrial Tractor Sales, 903 Del Paso Blvd. WA 5-8525
Colo., Denver—Johnson-Tudor Co., 6198 Colorado Blvd. AT 8-1513
Mont., Billings—Seitz Machinery Co., Inc., 420 No. 24th St. Phone 2-2103
Mont., Great Falls—Seitz Machinery Co., Inc., 1107 Smelter Ave. Phone 2-6996
Nev., Reno—Reno Equipment Sales Co., 1700 W. Fourth St. FA 2-7025
Ore., Portland—Manitou Equipment Co., 3251 N.W. Front Ave. CA 7-3418
Utah, Salt Lake City—Rasmussen Equipment & Supply Co., 1960 So. Second W. HU 5-5478
Wash., Seattle—Manitou Equipment Co., 5602 First Ave. So. MO 9010
Wash., Spokane—Inland Diesel & Machinery Co., E. 3511 Trent Ave. KE 5-2434

UNIT MANUFACTURING CO., 1229 Harmon Pl., Minneapolis 3, Minn.

Cranes (hand power), Hoists (crane, electric, hydraulic, portable), Hydraulic cylinders.

Representatives

Ariz., Phoenix—Southwest Truck Body & Equipment, 2214 No. 27th Ave.
Calif., Fresno—A & P Body & Tank Distributors, 245 "M" St.
Calif., Los Angeles—American Equipment Co., 1461 E. Washington Blvd.
Calif., Los Angeles—Jumbo Equipment Co., 1012 So. Los Angeles Ave.
Calif., Los Angeles—K & K Body Works, 3045 Verdugo
Calif., Oakland—Rickstell Sales Co., 2985 Ford
Calif., San Francisco—Heil Equipment Co. of Northern Calif., 999 16th St.
Colo., Denver—Truck Equipment Co., 3936 Walnut
Idaho, Boise—The Lang Co., Inc., 420 No. Curtis Rd.
Idaho, Pocatello—Williamsen Body and Equipment Co., P. O. Box 1285
Mont., Billings—H-C-L Equipment Co., 421 No. 20th
Mont., Great Falls—H-C-L Equipment Co., P. O. Box 1662
Nev., (Covered by California distributors)
N. Mex., Albuquerque—Winter-Weiss Co., 6130 No. Second St.
Ore., Portland—Schetky Equipment Corp., 1810 S.E. 10th Ave.
Utah, Ogden—Truck Equipment Co., 3936 Walnut
Wash., Seattle—Nelson Truck Equipment Co., Inc., 128 Westlake No.
Wash., Seattle—Tri-Coach Co., 3407 Airport Way
Wyo. (Covered by Denver, Colo., distributors)

UNITED STATES RUBBER CO., MECHANICAL GOODS DIV., Avenue of the Americas, New York, N. Y.

Barrels (rubber, collapsible), Belting (conveyor, fabric, canvas, elevator, endless), Conveyors (belt), Elevators (belt), Tires (industrial truck and tractor).

Branches

Calif., Los Angeles—Soto and 46th St. LU 9-3161
Calif., San Francisco—6025 Third St. MI 8-3783
Colo., Denver—4800 Colorado Blvd. DU 8-2481
Ore.,—Portland—630 N.W. Tenth Ave. CA 7-6571
Utah, Salt Lake City—160 Social Hall Ave. EM 4-6563
Wash., Seattle—220 Jackson St. EL 2502

UNITED STATES STEEL CORP. see **COLUMBIA-GENEVA STEEL DIV.** see **CYCLONE FENCE DEPT., AMERICAN STEEL & WIRE DIV.,** see **GERRARD STEEL STRAPPING DIV.**

UNIVERSAL CRANEHOIST & MONORAIL CO., 634 Sixth St., San Francisco, Calif. MA 1-8841

Conveyors (automatic, chain or link, continuous flow, foundry, overhead, trolley, special), Cranes (gantry, hand power, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I-beam overhead, locomotive overhead, monorail overhead), Grabs, Grapples, Hoists (chain, crane, electric, hand, monorail, portable, traveling), Magnets, Scales (monorail), Slings (chain, wire rope), Trolleys, Winches and Windlasses.

UNIVERSAL HOIST CO., 1326 Western Ave., Cedar Falls, Iowa

Conveyors (belt, bucket, continuous flow, drag), Elevators (belt, bucket, continuous flow, other),

Representatives

Ariz., Phoenix—Geo. Hunsicker, 953 W. Glenrosa. AM 5-4612
Calif., Los Angeles—L. N. Webster & Co., 4221½ Avocado St. NO 3-0652
Calif., San Francisco—Reid-Strutt Co., Inc., 41 Drumm St.
Calif., San Gabriel—R. D. Holms, 6737 No. Vista St. AT 6-5363
Colo., Denver—Wagner Mach. & Mill Supply, 4444 York St.
Idaho, Twin Falls—Walter N. Steele Co., 401 So. Shoshone St.
N. Mex., Roswell—Carl J. Carlson, 1105 So. Kentucky St.
Wash., Spokane—Carter-Miller Mill Furnishing Co., 1324 No. Ash St.

VAC-U-LIFT CO., P. O. Box 298, Salem, Ill.

Vibrators (vacuum).

Representatives

Calif., El Segundo—Hufford Machine Works Inc., 1700 E. Grand Ave. OR 8-6221
Wash., Seattle—Wm. G. Hathaway, 1731 1st Ave. So. MU 5488

VANGUARD ENGINEERING CO., 1908 E. 66th St., Cleveland 3, Ohio

Cranes (charging and drawing, hand power, electric traveling, precision electric truck), Stackers (portable electric), Tractors (electric warehouse), Trucks (die handling, elevating or lifting, industrial electric, hydraulic lift, power-driven lift, paper roll).

Representatives

Ariz., Phoenix—Kinney Materials Handling Equipment, Inc., 929 Grand Ave. AL 8-2778
Calif., Los Angeles—James P. Kinney Co., 5141 Telegraph Rd. AN 9-7411
Wash., Seattle—Air-Mac, Inc., 3838 Fourth Ave. So. MU 3388

VICKERS, INC., MOBILE HYDRAULICS DIV., Administrative & Engineering Center, Detroit 32, Mich.

Hydraulic pumps, Motors, Control valves, Power steering pumps and cylinders.

Branches

Calif., Berkeley—920 Grayson St. AS 3-4997
Calif., El Segundo—2160 E. Imperial Hwy. OR 8-2563
Ore., Portland—1744 S.E. Hawthorne Blvd. BE 4-9446
Wash., Seattle—623 Eighth Ave. So. MU 6950

VICKERS, INC., see **TULSA WINCH DIV.**

VICTOR BALATA & TEXTILE BELTING CO., 53 Park Pl., New York 7, N. Y.

Belting (composition, conveyor, fabric, canvas, elevator, endless, other), Slings (belt, canvas, other).

Representatives

Calif., Los Angeles—Degen-Fiege Co., 4559 E. Sheila St. AN 9-0781
Calif., San Francisco—Pacific Coast Rubber Co., 51 Main St. EX 2-6963
Calif., South Pasadena—T. H. Hinchcliffe, P. O. Box 941. CL 6-1348,
Ore., Portland—S. Alex Turnley, 4433 N. E. Failing St. GA 2176
Utah, Salt Lake City—Mountain States Rubber Co., 121 Social Hall Ave. Phone 3-6727
Wash., Everett—Washington Belting & Rubber Co., 2923 Grand Ave. CE 3111
Wash., Seattle—Washington Belting & Rubber Co., 2763 First Ave. So. EL 5650
Wash., Spokane—Nott-Atwater Co., So. 157 Monroe St. MA 4377
Wash., Tacoma—Washington Belting & Rubber Co., 672 E. 11th St. MA 8158

VIKING PUMP CO., Fourth and Koch Sts., Cedar Falls, Ia.

Pumps.

Branch

Calif., Los Angeles—4432 Long Beach Ave. AD 3-8165

Representatives

Calif., Millbrae—DeLaval Pacific Co., 201 E. Millbrae Ave. OX 7-4001
Colo., Denver—Hendrie-Bolthoff Co., 1635 17th St. KE 4-4111
Utah, Salt Lake City—Utility Engineers, 630 Dooly Bldg. Phone 3-4682

WARREN PUMPS, INC., 581 Bridges Ave., Warren, Mass.

Pumps (centrifugal, reciprocating, rotary, screw).

Representatives

Calif., Los Angeles—Gil Moore & Co., 310 No. Normandie Ave. NO 3-3995
Calif., San Francisco—George E. Swett & Co., 100 Howard St. EX 2-6145
Colo., Denver—I. G. Downs Co., Inc., 1550 Blake St. TA 5-2885
Wash., Seattle—R. L. Dyer, 1218 Third Ave. MA 3441

WASHINGTON ALUMINUM CO., INC., Knecht Ave. and Pennsylvania Railroad, Baltimore 29, Md.

Boxes (tote), Dock boards, Hoppers, Pallets, Platforms, Racks (pallet), Ramps (loading, etc.), Skids.

Representative

Calif., San Francisco—M. J. Gigy & Associates, Inc., 37 California St. YU 6-2803 or LA 4-2889

WASHINGTON BELTING & RUBBER CO., 672 E. 11th St., Tacoma 1, Wash.

Belting (chain link, composition, conveyor, fabric, canvas, elevator, endless, wire), Belt fasteners and Belt lacings, Car pullers, Chains, Clutches, Conveyors (apron, belt, bucket, chain or link, drag, flight, foundry, gravity roller, live roller, screw, vibrating), Elevators (belt, bucket), Idlers (conveyor), Pulleys (conveyor, magnetic), Rollers (conveyor), Wheels (conveyor).

Branches

Wash., Everett—2923 Grand Ave. CE 3111
Wash., Seattle—2763 First Ave. So. EL 5650

Representative

Wash., Aberdeen—Mill & Logging Supply, 313 So. H St. Phone 291

WAUKESHA MOTOR CO., W. St. Paul Ave., Waukesha, Wis.

Engines (gas, gasoline, diesel).

Branch

Calif., Los Angeles—4927 Pacific St.

Representatives

Calif., Emeryville—Waukesha Pacific Equipment Co., 1310 66th St.
Calif., Eureka—B & S Supply Co., 813 Whipple
Calif., Los Angeles—Waukesha Southern California, P. O. Box 3128, Terminal Annex
Colo., Denver—Waukesha Engine & Equip. Co., 4999 Jackson St.
Idaho, Boise—D. N. Nordling Parts Co., 14th St. at Main
Ore., Portland—Truck & Industrial Equipment Co., 7 N.E. Oregon St.
Utah, Salt Lake City—Love Co., Inc., 47 E. 7th So.
Wash., Seattle—Piston Service, Inc., 905 E. Union St.

WAYNE MFG. CO., see **AUTOETTE DIV.**

WAYNE MFG. CO., 1201 E. Lexington St., Pomona, Calif.

Power and Street Sweepers.

Branch

Calif., Palo Alto—1590 Dana Ave. DA 3-4074

Representatives (Power Sweepers)

Ariz., Phoenix—Road Machinery Co., 716 So. 7th St.
Calif., Bakersfield—Brown-Bevis Industrial Equipment Co., 1419 Union Ave.
Calif., Eureka—Eureka Boiler Works, Foot of S St.
Calif., Fresno—Contractors Equipment & Supply Co., 1143 C St.
Calif., Los Angeles—R. J. Lison Co., 1609 Glendale Blvd.
Calif., Sacramento—J. R. Rolfe Equipment Corp., 3200 Jay St.
Calif., San Diego—Brown-Bevis Industrial Equipment Co., 701 E. Harbor Dr.
Calif., San Francisco—Curtis Equipment Co., 290 Seventh St.
Calif., San Jose—Emery Supply Co., 1401 W. San Carlos
Colo., Denver—Joe Coursey Equipment Co., Inc., 1243 Walnut St.
Mont., Billings—Industrial Equipment Co., 415 No. 27th St.
Nev., Las Vegas—City Janitor Service, 19 E. Wyoming St.
Nev., Reno—General Equipment Co., 1201 E. Second St.
N. Mex., Albuquerque—E. D. Flourney Co., 217 Sixth St. S.E.
Utah, Salt Lake City—Rocky Mountain Machinery Co., 1485 South Second W. St.
Wash., Seattle—Materials Handling Equipment Co., Inc., 2963 First Ave. So.
Wash., Spokane—Towne Equipment Co., No. 622 Monroe St.
Wyo., Casper—Studer Tractor & Equipment Co., 2300 E. Yellowstone Hwy.

Representatives (Street Sweepers)

Ariz., Phoenix—Road Machinery Co., 716 So. 7th St.
Ariz., Tucson—Road Machinery Co., 2601 So. 4th Ave.
Calif., Bakersfield—Brown-Bevis Industrial Equipment Co., 1419 Union Ave.
Calif., Eureka—Eureka Boiler Works, Foot of S St.
Calif., Fresno—Contractor Equipment & Supply Co., 1143 C St.
Calif., Los Angeles—Brown-Bevis Industrial Equipment Co., 6550 E. Washington Blvd.
Calif., Riverside—Braman-Dickerson Co., Inc., 1575 E. 8th St.
Calif., Sacramento—Western Traction Co., 16th & American River
Calif., San Diego—Brown-Bevis Industrial Equipment Co., 701 E. Harbor Dr.
Calif., San Francisco—Western Traction Co., 2230 Third St.
Colo., Denver—Ray Corson Machinery Co., 350 Kalamath St.
Nev., Las Vegas—Clark County Wholesale Mercantile Co., 505-512 So. Main St.
Nev., Reno—General Equipment Co., 1501 E. Second St.
N. Mex., Albuquerque—J. D. Coggins Co., 1717 Second St. N.W.
N. Mex., Farmington—J. D. Coggins Co., P. O. Box 1356
Ore., Portland—Feenaughty Machinery Co., 112 S.E. Belmont St.
Utah, Salt Lake City—Rocky Mountain Machinery Co., 1485 So. Second W. St.
Wash., Seattle—Freenaughty Machinery Co., 1028 Sixth Ave.
Wash., Spokane—Freenaughty Machinery Co., 715 No. Division St.

WAYNE PUMP CO., THE, Herbert, Riverbend and Griffin Sts., Fort Wayne 4, Ind.

Dock levelers, Truck levelers, Straight platform lifts (single and two post), Portable dock levelers, Truck service lifts, Cross-over bridges, Rotary gear pumps.

Representatives

Calif., El Monte—Engineering Products Co., 3350 No. Gilman Rd.
Colo., Thornton—Equipment Eng. Co., 1400 Ruth Dr.
Utah, Ogden—Geo. W. Goddard, Inc., 2424 Wall Ave.
Wash., Seattle—Hallidie Machinery & Equipment Co., 210 Hudson St.

WEBB, JERVIS B., CO. OF CALIF. 9301 Rayo Ave., South Gate, Calif.

Conveyors (apron, automatic, belt, bucket, chain or link, continuous flow, drag, flight, foundry, overhead, pallet, trolley, vertical).

Branches

Calif., San Francisco—2166 Market St. KL 2-2709
Utah, Salt Lake City—52 W. Second South St. DA 2-5887
Wash., Seattle—2001 Eastlake Ave. EA 0132

WEBB, JERVIS B., CO. OF CALIF., see also **SPANMASTER CRANE DIV.**

WEBER MARKING SYSTEMS DIV., WEBER ADDRESSING MACHINE CO., INC., 215 E. Prospect, Mount Prospect, Ill.

Machines, Handprinters and stenciling systems for addressing and marking labels, Tags and cartons.

Representatives

Ariz., Phoenix—Kistler Industrial Service, 902 So. Central Ave. AL 8-7196
Calif., Los Angeles—Cal-State Distributors, 8928 So. Figueroa. PL 2-7141

Calif., San Francisco—Diagraph-Bradley, 340 Fourth St. SU 1-5536
Calif., San Francisco—Shannon Mason, 2690 44th Ave. LO 4-2654
Colo., Denver—Woehrmyer Printing Co., 770 Acoma St. CH 4-6617
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave. CA 8-2321
Wash., Seattle—Masterson's Equip. Supplies, 2720 Westlake No. GA 0245

WEHLE CONVEYOR CO., 25-27 Washington St., Binghamton, N. Y.
Conveyors (bag and bale, chain or link, pallet, floor to floor).
Representatives
Calif., Lynwood—J. W. Lafferty Co., 11371 So. Atlantic Ave.
Calif., San Francisco—Ira G. Perin Co., 575 Howard Ave. GA 1-1827

WEIGH RIGHT AUTOMATIC SCALE CO., Mills Rd., Joliet, Ill.
Conveyors (bucket, belt, continuous flow, flight, automatic), Elevators (belt, bucket, continuous flow), Scales (packaging).
Representatives
Calif., Los Angeles—Watts King Co., 3404 No. Figueroa. CA 2-5101
Calif., San Francisco—Food Equipment & Supply Co., 210 Mississippi St. HE 1-8162
Colo., Denver—Halsell Brokerage Co., 3101 Walnut St. TA 5-8798
Ore., Portland—Duncan Equipment, 103 Regal Bldg. AT 4107
Wash., Seattle—Duncan Equipment Co., 506 Broadway. EA 3838

WELLINGTON MACHINE CO., 133 De Wolf St., Wellington, Ohio
Carts, Casters, Trucks (bag, barrel, drum, box type, die handling, dolly, elevating or lifting, factory and warehouse, hand, hand lift, hand-mechanical lift, paper roll, jack-type, hydraulic lift, power-driven lift, packing house, pallet, sheet handling, skid handling, special), Wheels (general industrial, hand truck, rubber tired).
Representatives
Calif., Los Angeles—Davis Material Handling Co., 4891 Huntington Dr.
Ore., Portland—F. E. Bennett Co., 426 N.W. Sixth Ave.
Wash., Seattle—R. H. Brown Co., P. O. Box 3046.

WEST BEND EQUIPMENT CORP., 307 Water St., West Bend, Wis.
Conveyors (belt), Elevators (barrel, continuous flow, portable, freight), Racks (pallet, storage), Stackers (portable electric, portable hand), Tables (elevating), Trailers (factory and warehouse), Trucks (bag, barrel, drum, box type, die handling, dolly, elevating or lifting, factory and warehouse, hand, hand lift, hand-mechanical or jack-type lift, hydraulic lift, pallet, sheet handling, skid handling), Wheels (hand truck, rubber tired).

See advertisement on page 76

Representatives
Calif., Pomona (Southern California, Arizona, Nevada)—Keville Industrial Service, 1590 Ganesha Place. LY 2-3977
Calif., San Francisco—P. F. O'Donnell Co., 2298 Jerrold. AT 8-6362
Colo., Thornton—Equipment Eng. Co., 1400 Ruth Dr. AT 7-5255
N. Mex., Albuquerque—Stryco Sales, Inc., 312 Industrial, N. E. Phone 4-6048
Ore., Portland—Hallidie Machinery Co., 1545 S.E. Union St. FI 7491
Utah, Salt Lake City—Equipment Supply Co., 16 Post Office Pl. Phone 3-9074
Wash., Seattle—Preston Faller Co., 1921 Minor Ave. MA 4256
Wash., Spokane—Liftco, Inc., 4824 E. Trent. KE 5-1776
Wash., Tacoma—Preston Faller Co., So. 19th and Jefferson. BR 1573
Wash., Yakima—Preston Faller Co., 108 So. Fourth Ave. Phone 6668

WEST COAST MACHINERY, INC., 1801 Charter Way, Stockton, Calif.
Trucks (gasoline fork, gasoline, gas-electric).
Representatives
Calif., Los Angeles—L. J. Lutz Co., 7962 Salt Lake Ave.
Calif., Oakland—Bay Cities Equipment, 2792 Cypress St.
Colo., Denver—Hahn Equipment Co., 1795 Sheridan Blvd.
Idaho, Pocatello—City Motor Co., 510 So. Main St.
Ore., Portland—Hallidie Machinery Co., 1915 N.E. Union

WESTERN GEAR CORP., P. O. Box 182, Lynwood, Calif.
Trucks (motorized hand micro lever), Winches and Windlasses.
Branches
Calif., Belmont—P. O. Box 126. LY 3-7611
Colo., Denver—865 Lincoln St. KY 4-5513
Ore., Portland—930 S. E. Oak St. BE 5-3177
Wash., Seattle—417 Ninth Ave. So. MA 0062

WHITING CORP., 157th & Lathrop, Harvey, Ill.
Cranes (gantry, hand power, jib, pillar, swing, bracket, electric and electric traveling overhead, foundry overhead, hand power traveling overhead, I beam overhead, monorail overhead), Jacks (screw), Trackmobile (car mover).
Branches
Calif., Norwalk—14420 So. Bloomfield Ave. UN 4-2776
Wash., Seattle—1326 Fifth Ave. MU 1785
Representatives
Calif., San Francisco—H. E. Botsford Co., 582 Market St. EX 2-0370
Calif., Los Angeles—James P. Kinney Co., 6141 Anaheim Telegraph Rd. AN 9-7411
Calif., San Francisco—Walter Dankas & Co., 1485 Bayshore Blvd. DE 3-5963
Calif., South Gate—California Crane & Equipment Corp., 10928 Vulcan St. LO 9-7108
Colo., Denver—C & M Industries, Inc., 200 48th Ave. AL 5-1758
Colo., Denver—Murray Sales Co., 16 Wazee Market KE 4-5296
Colo., Denver—Peterson Co., 4949 Colorado Blvd. DE 3-5434
Ore., Portland—Ardies Machinery & Sales, 425 S.E. Ninth Ave. BE 4-7284
Ore., Portland—Monarch Forge & Machine Works, Inc., 2130 N.W. York St. CA 7-0631
Utah, Salt Lake City—James J. Burke Co., 422 W. Ninth South. Phone 3-1001
Wash., Seattle—A. H. Cox Co., 1757 First Ave. So. MA 1121
Wash., Spokane—General Machinery Co., E. 3500 Riverside Ave. KE 1535
Wash., Spokane—Union Iron Works, E. 217 Montgomery St. GL 2711
Wash., Tacoma—Star Iron & Steel Co., 435 E. 11th St. MA 9133

WHITNEY CHAIN CO., 237 Hamilton St., Hartford 2, Conn.
Power transmission and conveyor chain drives, Flexible couplings, Whitney-Tormag magnetic drives.
Branches
Calif., Los Angeles—P.O. Box 58454, Vernon Station. LU 7-3151
Utah, Salt Lake City—1676 E. Forest Hills Dr. CR 7-3520
Representatives
Calif., Huntington Park—Mechanical Drives Co., 5400 Pacific Blvd.
Calif., Santa Clara—Whitney Ind. Drives, 2311 Lafayette St.
Ore., Portland—Northwest Chains & Sprockets, 31 N.W. 1st St.
Wash., Seattle—Northwest Chains & Sprockets, Inc., 3628 E. Marginal Way

WILKIE CO., THE, 5520 Arch St., Philadelphia 39, Pa.
Telescopic conveyors and "flopover" curves.
Representative
Calif., Los Angeles—Davis Material Handling Co., 4891 Huntington Dr. No. CA 2-7197

WILSHIRE POWER SWEEPER CO., 526 W. Chevy Chase, Glendale, Calif. CH 5-5178
Industrial powered sweepers.
Representatives
Ariz., Phoenix—Equipment Sales Co., 720 So. 19th Ave. AL 8-7151
Calif., Fresno—Edward R. Bacon Co., 3000 Railroad Ave. Phone 6-8129
Calif., Glendale—Columbia Floor Equipment Co., 540 Riverdale Dr. CH 5-5734
Calif., Oakland—Edward R. Bacon Co., 1135 57th Ave. KE 3-0432
Calif., Sacramento—Edward R. Bacon Co., 211 No. 7th St. GI 2-1008
Calif., San Francisco—Edward R. Bacon Co., Folsom at 17th St. HE 1-37000
Colo., Denver—Francis & Sims, Inc., 2750 W. 17th Ave. AL 5-1781
Idaho, Boise—Davison Equipment Co., 6112 Fairview Ave. Phone 2-7011
Mont., Billings—Western Construction Equipment Co., 505 No. 24th St. Phone 9-5501
Mont., Great Falls—Western Construction Equipment Co., 2322 River Dr. GL 3-1405
N. Mex., Albuquerque—R. L. Harrison Co., Inc., 1801 No. 4th St. Phone 7-8811
Ore., Eugene—Cramer Machinery Co., 1659 W. Sixth Ave.
Ore., Portland—Cramer Machinery Co., 1140 S.E. 7th Ave. BE 2-0156
Utah, Salt Lake City—Foulger Equipment Co., 1361 S. Second St. W. HU 4-7625
Wash., Seattle—Preston Faller Co., 1921 Minor. MA 4256
Wash., Spokane—Western Machinery Co., No. 808 Division St. FA 8-3240

WIRE AND IRON PRODUCTS INC., 1725 16th St., Detroit 16, Mich.
Baskets (metal and wire), Guard panels for overhead conveyors, Partitions, Enclosures.
Representatives
Calif., San Francisco—Western Industrial Equipment Co., 420 Market St.
Calif., Santa Ana—Geo. F. Otte, 506 E. Santa Clara. KI 3-1737

WIRE BELT COMPANY OF AMERICA, 18 River St., Winchester, Mass.
Belting (wire conveyor, processing, anrobar type).
Representatives
Calif., San Mateo—C. R. Becker, 3827 Fernwood Ave. FI 5-3996

JOHN WOOD CO., BENNETT PUMP DIV., Muskegon, Mich.
Petroleum and air dispensing equipment.
Branch Offices
Calif., Burlingame—1864 Rollin Rd. OX 7-5376
Calif., Los Angeles—3125 E. Twelfth St. AN 9-1189
Colo., Denver—1600 So. Quebec St. PL 5-0212
N. Mex., Albuquerque—2212 First St., N.W. CH 3-3766
Utah, Salt Lake City—1077 So. Main St. DA 2-5525
Wash., Seattle—926 Twelfth Ave. EA 6655

Write to WESTERN INDUSTRY for information on any manufacturer not listed here.

WORLEY & CO., 4820 So. Durfee Ave., Pico, Calif. RA 3-3245
Baskets (metal), Bins, Boxes (tote), Racks (storage), Tables (portable).
Representatives
Ariz., Phoenix—Robert G. McKinney, P. O. Box 2483. WH 5-5243
Calif., Fresno—Fred W. Cunningham Co., 61 No. Fulton St. AD 3-7942
Calif., San Francisco—Trask & Squier, 39 Natoma St. SU 1-3473
N. Mex., Albuquerque—George Mayhew, P. O. Box 8301. Stn. C. AL 5-8385
Ore., Portland—W. H. Cress Co., 201 Concord Bldg. CA 8-1714
Utah, Salt Lake City—Rex W. Williams & Son, 976 Fourth St. EL 5-6266
Wash., Seattle—Burtch-Cole Co., 3601 Greenwood Ave. MU 0880
Wash., Spokane—Fryer Ford Co., 612 Peyton Bldg. MA 4-4453
Hawaii, Honolulu—H. P. Ross, P. O. Box 54. Phone 542-405

WRIGHT HOIST DIVISION OF AMERICAN CHAIN & CABLE CO., INC., York, Pa.
Chain Hoists, Electric Hoists, Trolleys, Ratchets Hoists, Jib Cranes, Overhead Hand Traveling and Motor Driven Cranes.
Branch Offices
Calif., Los Angeles—6808 E. Acco St. RA 3-9751
Calif., San Francisco—809 Tennessee St. MI 7-4640
Ore., Portland—2210 N.W. Roosevelt. BE 4727
Representatives
Calif., Los Angeles—Irving G. King Co., 821 Mateo St. TU 3176
Calif., San Francisco—Stryco Mfg. Co., 470 Natoma St. SU 1-8310
Ore., Portland—Paulson Machine Works, 1433 N.W. Quimby St. CA 8-5237
Wash., Seattle—Berger Engineering Co., 3236 16th Ave., S.W. MU 4280
Wash., Seattle—Berger Engineering Co., 3236
Wash., Spokane—Union Iron Works, E. 217 Montgomery. HU 7-1691

YALE & TOWNE MFG. CO., 11000 Roosevelt Rd., Philadelphia 15, Pa.

Hoists (chain, electric, hand, monorail, portable, traveling), Trucks (bag, barrel, drum, die handling, elevating or lifting, factory and warehouse, diesel fork, electric fork, gasoline fork, hand, motorized hand, industrial, gasoline lift, hand lift, hand-electric lift, hand-mechanical lift, hydraulic lift, power-driven lift, pallet, paper roll, skid handling, straddle, electric tiering), Tractor (electric warehouse).

See advertisement on pages 72 & 73

Branch Offices

Calif., Fresno—410 Broadway. AD 3-7211
Calif. Los Angeles—5711 E. Olympic Blvd. RA 3-9161
Calif., Sacramento—2015 "J" St. GI 3-6642
Calif., San Leandro—1251 Doolittle Dr. HO 2-4200
Calif., San Diego—6055 Fairmont Ext. AT 1-3993

Regional Hoist Offices

Calif., Los Angeles—5711 E. Olympic Blvd. RA 3-9169
Calif., San Leandro—1251 Doolittle Dr.
Wash., Bellevue—2414 158th Ave. S.E. PO 2397

Representatives (Trucks only)

Ariz., Phoenix—Kinney Materials Handling, Inc., 929 Grand Ave. AL 8-2778
Ariz., Tucson—Kinney Materials Handling Equipment, Inc., 3122 Tierra Alta Blvd. EA 6-6040
Colo., Denver—Joe Coursey Equipment Co., Inc., 1243 Walnut St. AC 2-9581
Hawaii, Hilo—Hilo Iron Works
Hawaii, Honolulu—Honolulu Iron Works, P. O. Box 340
N. Mex., Albuquerque—Albuquerque Material Handling Co., 6431 Linn Ave., N.E. Phone 6-5518
Ore., Portland—Prentice Materials Handling Co., 2303 No. Randolph Ave. AT 2-3262
Utah, Salt Lake City—Materials Handling Engineers, 334 W. 17th So. St. IN 7-4871
Wash., Seattle—Coast Associates, Inc., 1961 So. Fourth Ave.
Wash., Spokane—Towne Equipment Co., Inc., 622 No. Monroe St. FA 8-1540

YOUNG SPRING & WIRE CORP., OTTAWA STEEL DIV., 435½ So. Main St., Ottawa, Kan.

Fork lift trucks (outdoor type, hydraulic).

Representatives

Ariz., Phoenix—O. S. Stapley Co., 407 So. 17th Ave.
Calif., Los Angeles—Smith Booth Usher Co., 2001 Santa Fe Ave. TR 6911
Calif., San Francisco—Edward R. Bacon Co., Folsom at 17th St. HE 1-3700
Idaho, Boise—Intermountain Equipment Co., Broadway at Myrtle. Phone 3-6441
Idaho, Pocatello — Intermountain Equipment Co., 210 No. 4th Ave. Phone 3663
Mont., Billings—Seitz Machinery Co., 420 No. 24th St.
Mont., Bozeman—Seitz Machinery Co.
Mont., Great Falls—Seitz Machinery Co., 1107 Smelter Ave.
N. Mex., Albuquerque—Log Cutters Supply Co., 6608 2nd St. N.W.
Ore., Portland—Howard-Cooper Corp., 5821 N.E. Glisan. BE 5-6601. (Also Howard-Cooper branches in Central Point, Coquille, Eugene, and Roseburg, Ore.)
Utah, Salt Lake City—Kimball Equipment Co., 1846 So. Second W. Phone 6-6775
Wash., Seattle—Howard-Cooper Corp., 5055 4th Ave. So. MO 6-1744
Wash., Spokane—Western Machinery Co., 808 Division St.
Wyo., Casper—Keremi Tractor & Equip. Co., 414 So. Elm St.
Wyo., Cheyenne—Keremi Tractor & Equip. Co., 701 W. 17th St.

YOUNG SPRING & WIRE CORP. see also **DAYBROOK HYDRAULIC DIV.**

YUBA CONSOLIDATED INDUSTRIES, INC., 351 California St., San Francisco 4, Calif.

Bins, Conveyors (bucket), Cranes (gantry, jib, pillar, swing, bracket, double beam overhead, electric and electric traveling overhead, foundry overhead), Hoists (drum), Hoppers.

Branches

Calif., Benicia—701 E. H St. Phone 628
Calif., Richmond—Barrett Ave & A St. BE 2-2734
Calif., San Francisco—520 Balfour Bldg. EX 2-0274

Representatives

Calif., Los Angeles—Gil Moore & Co., 310 No. Normandie Ave.
Colo., Denver—Hank Thurstin Co., 475 Acoma St.
Utah, Salt Lake City—Pace-Turpin & Co., 726 So. Third
Wash., Seattle—Meyhill Nimusgrove Co., 2019 Third Ave.

YUBA MFG. CO., 701 East "H" St., Benicia, Calif.

Conveyors (belt, bucket), Cranes (jib, double beam overhead, electric and electric traveling overhead), Pulleys (conveyor, other), Trailers (tractor), Winches and Windlasses, Mevall wagon.

Branch

Calif., San Francisco—351 California St. EX 2-0274

Representatives

Ariz., Phoenix—Arizona Cedar Rapids Co., 1726 Jackson St.
Calif., Alhambra—Frank Cox Equipment Co., 3000 W. Valley Blvd.
Calif., Los Angeles—Brown-Bevis Industrial Equipment, 6550 E. Washington Blvd. PA 8-7161
Calif., Oakland—Bay Cities Equipment Co., 2606 Cypress St.
Calif., Stockton—Stockton Iron Works, P. O. Box 1331
Idaho, Boise—Idaho Sprocket & Machine Wks., 2400 Warm Springs Ave.
Nev., Reno—Sierra Machinery Co., 407 Morrill Ave.
N. Mex., Albuquerque—Lively Equipment Co., 2601 Fourth St.
Ore., Ashland—Fowler Engineering Sales Co., P.O. Box 162

ZURN INDUSTRIES, INC., MECHANICAL POWER TRANSMISSION DIV., 1965 Pittsburgh Ave., Erie, Pa.

Flexible shaft couplings (gear-type utilizing fully crowned tooth, one piece continuous sleeve couplings, and jaw flange-type couplings), Synchronizing clutches.

Representatives

Calif., Los Angeles—Mark-Costello Co., 6511 Whittier Blvd.
Calif., San Francisco—F. Somers Peterson Co., 157 Thirteenth St.
Colo., Denver—J. M. Warner Co., 600 W. 48th St.
Ore., Portland—Bearing Sales-Service, 1645 N.W. Hoyt St.

CLASSIFIED PRODUCTS SECTION

If you are searching for a particular type of material handling or industrial packaging product, look here under proper heading to obtain names of manufacturers—then refer to listings in "Where-to-Buy" section to obtain pertinent buying information.

Only manufacturers are included in this Directory whose response to WESTERN INDUSTRY'S questionnaire indicated they have distributor or company offices within the 11 Western states. Therefore, you will save time by referring to this directory to locate nearest sources of supply or product information.

AXLES—trailer or truck

Fruehauf Trailer Co.
Kay-Brunner Steel Products, Inc.
Missile-Aircraft Ground Equip. Supply Co.
Selma Trailer & Mfg. Co.

BAGS—burlap, canvas

Bemis Brothers Bag Co.

BAGS—multi-wall

Bemis Brothers Bag Co.
Continental Can Co.
Industrial Marking Equipment Co. (printing)
Portco Corp.

BAGS—shipping

Bemis Brothers Bag Co.
Portco Corp.
Sherman Paper Prod. Corp of Calif.

BAGS—other

Bemis Brothers Bag Co. (cotton, small paper, polyethylene)
Portco Corp. (custom)

BARRELS FOR SHIPPING—fibre

Continental Can Co.
Gaylord Container Corp.
Rheem Mfg. Co.

BARRELS FOR SHIPPING—metal

Berger Div.
Continental Can Co.
Rheem Mfg. Co.

BARRELS FOR SHIPPING—other

Gaylord Container Corp. (corrugated)
Rheem Mfg. Co. (steel)

BASKETS—fibre

Convoy, Inc.
L. P. Degen Belting Co.
Federal Fibre Corp.
Fiberboard Paper Products Corp.
Gaylord Container Corp.
National Vulcanized Fibre Co.

BASKETS—metal

Bathey Mfg. Co.
Berger Div.
Lyon Metal Prod., Inc.
Mid-West Wire Prod. Co., Inc.
Rack Engineering Co. of Calif., Inc.
Selma Trailer & Mfg. Co.
Union Steel Products Co.
Wire and Iron Products, Inc.
Worley & Co.

BASKETS—wire

Hartman Metal Fabricators, Inc.
Hewitt-Robins, Inc.
Lyon Metal Prod., Inc.
Mid-West Wire Products Co., Inc.
Rack Engineering Co. of Calif., Inc.

Springfield Steel Product Co.
Ed Sullivan Equip. Eng. Services
Union Steel Products Co.
Wire and Iron Products, Inc.

BASKETS—other

Blackman Plastics (plastic)
L. P. Degen Belting Co. (leather, asbestos, rubber)
Ed Sullivan Equip. Eng. Services (plastic)

BATTERIES

C & D Batteries, Inc.
Thomas A. Edison, Inc., Electric Products Co. (battery chargers)
Exide Industrial Div.
The Hertner Electric Co. (battery chargers)
Laher Spring & Tire Corp.
The Lincoln Electric Co. (battery chargers)

BELTING—chain link

Conveyor Co.
Cyclone Fence Dept.
R & J Dick Co.
Food Machinery & Chemical Corp.
Hurt Conveyor Co.
Link-Belt Co.
Paramount Mfg. Co.
Washington Belting & Rubber Co.

BELTING—composition

Conveyor Co.
R & J Dick Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Ton-Tex Corp.
Washington Belting & Rubber Co.

BELTING—conveyor

American Rubber Mfg. Co.
Boston Woven Hose & Rubber Co.
Buffalo Weaving & Belting Co.
Carter-Miller Co.
Cyclone Fence Dept.
R & J Dick Co.
A. B. Farquhar Div.
Food Machinery & Chemical Corp.
The Franklin Cotton Mill Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Link-Belt Co.
May-Fran Engineering, Inc.
Paramount Mfg. Co.
Quaker Pioneer Rubber Div.
Raybestos-Manhattan, Inc.
Republic Rubber Div.
Sandvik Steel, Inc.
Thermoid Co.
Ton-Tex Corp.
Universal Hoist Co.
Washington Belting & Rubber Co.
Wire Belt Co. of America

BELTING—fabric, canvas, etc.

Buffalo Weaving & Belting Co.
Carter-Miller Co.
R & J Dick Co.
The Franklin Cotton Mill Co.
Hurt Conveyor Co.
Raybestos-Manhattan, Inc.
Ton-Tex Corp.
Washington Belting & Rubber Co.

BELTING—elevator

American Rubber Mfg. Co.
Boston Woven Hose & Rubber Co.
Buffalo Weaving & Belting Co.
Carter-Miller Co.
Conveyor Co.
R & J Dick Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Link-Belt Co.
Paramount Mfg. Co.
Quaker Pioneer Rubber Div.
Raybestos-Manhattan, Inc.
Republic Rubber Div.
Thermoid Co.
Ton-Tex Corp.
Universal Hoist Co.
Washington Belting & Rubber Co.

BELTING—endless

Boston Woven Hose & Rubber Co.
Buffalo Weaving & Belting Co.
Cyclone Fence Dept.
R & J Dick Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Quaker Rubber Div.
Raybestos-Manhattan, Inc.
Republic Rubber Div.
Thermoid Co.
Ton-Tex Corp.
Washington Belting & Rubber Co.

BELTING—wire

Ashworth Bros., Inc.
Cambridge Wire Cloth Co.
Conveyor Co.
J. W. Greer Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Paramount Mfg. Co.
Washington Belting & Rubber Co.
Wire Belt Co. of America

BELTING—other

Dodge Mfg. Corp. (V-belt)
Fort Worth Steel & Machinery Co. (V-belt)
Gerbing Mfg. Corp. (variable speed)
Hewitt-Robins, Inc.
E. F. Houghton & Co. (leather)
Hurt Conveyor Co.
May-Fran Engineering, Inc. (hinged steel)
J. E. Rhoads & Sons (leather)
Ton-Tex Corp. (flight, transmission)

BELT FASTENERS & BELT LACINGS

Clipper Belt Lacer Co.
Crescent Belt Fastener Co.
L. P. Degen Belting Co.
R & J Dick Co.
Flexible Steel Lacing Co.
Graton & Knight Co.
E. F. Houghton & Co.
Hurt Conveyor Co.
Paramount Mfg. Co.
Quaker Rubber Co.
J. E. Rhoads & Sons
Washington Belting & Rubber Co.

BINS

Akro Mills, Inc.
Bodinson Mfg. Co.
Borroughs Mfg. Co.
Bulldog Pallet Co.
Colorado Fuel & Iron Corp.
Cost Reduction Equip. Co.
Day Co.
Equipto Div.
Fort Steuben Metal Products Co.
General Box Co.
Hartman Metal Fabricators, Inc.
Link-Belt Co. (gates, storage)
Lippmann Engineering Works
Lyon Metal Prod., Inc.
Mid-West Wire Products Co., Inc.
Noble Co.
Penco Metal Prod. Div.
Petley, Inc.
Pioneer Pallet Co.
Rack Engineering Co. of California, Inc.
Sturdi-Bilt Engineering Co. (bulk storage)
Ed Sullivan Equip. Eng. Services
Thern Machine Co.
Tote System, Inc.
Worley & Co.
Yuba Consolidated Industries, Inc.

BOXES FOR SHIPPING—Corrugated, fibre and fibreboard

Brown Trailers, Inc.
Continental Can Co.
Fibreboard Paper Products Corp.
Flintkote Co.
Gaylord Container Corp.
Schmidt Lithograph Co.
Union Metal Mfg. Co.

BOXES FOR SHIPPING—wirebound and wooden

Brown Trailers, Inc.
Martin Brothers Container & Timber Products Corp.

BOXES FOR SHIPPING—other

Auto Sheet Metal Works (corrugated steel)
Brown Trailers, Inc. (aluminum)
Brummeler Steel Prod. Corp.
Hollywood Plastic Arts, Inc.
Hunter Woodworks
Ironbound Box & Lumber Co.
G. B. Lewis Co. (woven, wood and wire returnable, stacking, skid)
Springport Steel Products Co. (wire mesh containers)
The Union Metal Manufacturing Co.

BOXES, TOTE

Barrett-Cravens Co.
Bathey Manufacturing Co.
Berger Div.
Blackman Plastics
Brown Trailers, Inc.
Convoy, Inc.
Fab-Weld Corp.
Federal Fibre Corp.
Gaylord Container Corp.
Hartman Metal Fabricators, Inc.
Hollywood Plastic Arts, Inc.
G. B. Lewis Co. (polyester)
Lyon Metal Prod., Inc.
National Vulcanized Fibre Co.
Petley, Inc.
Powell Pressed Steel Co. (steel)
Pressteel Co.
Randolph Ind. Equip. Co.
Spaulding Fibre Co., Inc.
Springport Steel Prod. Co.
Ed Sullivan Equip. Eng. Services
Tote System, Inc.
Worley & Co.

CAR PULLERS

Alden Equip. Co.
American Engineering Co.
Clyde Iron Works
Cost Reduction Equip. Co.
L. B. Foster Co.
Hewitt-Robins, Inc.
Frank G. Hough Co.
Jeffrey Mfg. Co.
Joy Mfg. Co.
Stephens-Adamson Mfg. Co.
Washington Belting & Rubber Co.

CARTS—hand and push

Alden Equip. Co.
Auto Sheet Metal Works
Burroughs Mfg. Co.
Brooks & Perkins, Inc.
Carter-Miller Co.
Cost Reduction Equip. Co.
Equipto Div.
Fab-Weld Corp.
The Fairbanks Co.
Gar-Bro Mfg. Co.
Hamilton Caster & Mfg. Co.
Hartman Metal Fabricators, Inc.
"HH" Mfg.
Jackson Mfg. Co.
Lansing Co.
Lyon Metal Prod., Inc.
Magline, Inc.
Magnesium Co. of America
Nalpak Corp.
Nutting Truck & Caster Co.
Pressteel Co.
Rack Engineering Co. of California, Inc.
Rol-Away Truck Mfg. Co., Inc.
Roll Rite Corp.
Taylor Mfg. Co.
Technibilt Corp.
Wellington Machine Co.

CARTS—other

John Bean Div. (ground handling aircraft)
Blackman Plastics (box truck)
Burroughs Mfg. Co. (tool carts)
Equipto Div.,
McDermott & Greene
Nalpak Corp. (stock)
Pressteel Co. (stock)
Rol-Away Truck Manufacturing Co., Inc.

Roll Rite Corp.
Taylor Manufacturing Co. (electric)
Technibilt Corp.
(wire basket. nesting)
Wellington Machine Co.

CASTERS

Aerol Co.
Albion Industries
American Pulley Co.
Bassick Co.
Bond Foundry & Machine Co.
Colson Corp.
Colson Equipment & Supply Co.
Cost Reduction Co.
Darnell Corp.
Divine Brothers Co.
Fairbanks Co.
Faultless Caster Corp.
Gleason Corp.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Lansing Co.
Magnesium Co. of America
McDermott & Greene
Missile-Aircraft Ground Equip. Supply Co.
Stanley E. Morris Co.
Nalpak Corp.
Nutting Truck & Caster Co.
Rack Engineering Co. of Calif., Inc.
Rapids Standard Co.
Roll Rite Corp.
Wellington Machine Co.

CHAINS

Alden Equip. Co.
American Chain & Cable Co.
American Hoist & Derrick Co. (chain fittings)
Campbell Chain Co.
Chain Belt Co.
J. D. Christian Engineers
Columbus McKinnen Chain Corp.
Diamond Chain Co., Inc. (roller)
R & J Dick Co.
Dodge Mfg. Corp.
Electric Steel Foundry Co.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Stanley E. Morris Co.
Morse Chain Co.
Paramount Mfg. Co.
Philadelphia Chain & Block Mfg. Co., Inc.
Portland Chain Mfg. Co.
David Round & Son, Inc.
Union Chain & Mfg. Co.
Washington Belting & Rubber Co.
Whitney Chain Co.

CLUTCHES—safety

Flaton Machine Works
Jeffrey Manufacturing Co.
Morse Chain Co.
Stearns Electric Corp.
Washington Belting & Rubber Co.
Whitney Chain Co.
Zurn Industries, Inc.

CONVEYORS—apron

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
Bodinson Mfg. Co.
The E. W. Buschman Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Lippmann Engineering Works
M-H Standard Corp.
May-Fran Engineering, Inc.
Mechanical Systems, Inc.
Pacific Coast Ind. Equip. Corp.
Portland Chain Mfg. Co.
Sage Equipment Co., Inc.
Standard Conveyor Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—automatic

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
The E. W. Buschman Co.
Chainveyor Corp.
J. D. Christian Engineers
Cleveland Tramrail Div.
Colson Corp.
Conveyor Co.
J. C. Corrigan Co., Inc.
A. B. Farquhar Div.
Flexoveyor Mfg. Co.
Food Machinery & Chemical Corp.
General Nailing Machine Corp.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
M-H Standard Corp.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
New London Engineering Co.
Richards-Wilcox Manufacturing Co.
Sage Equip. Co., Inc.
Standard Conveyor Co.
Universal Cranehoist & Monorail Co.
Jervis B. Webb Co. of Calif.
Weigh Right Automatic Scale Co.

CONVEYORS—bag and bale

Alvey Conveyor Manufacturing Co.
Belt Corp.
Bosworth Mrg. Co.
The E. W. Buschman Co.
Carter-Miller Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
A. B. Farquhar Division
Flexoveyor Mfg. Co
Food Machinery & Chemical Corp.
E. C. Horne Machinery Co.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
New London Engineering Co.
Paramount Mfg. Co.
Power-Curve Conveyor Co.
Sage Equipment Co., Inc.
M-H Standard Corp.
Standard Conveyor Co.
Wehle Conveyor Co.

CONVEYORS—belt

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
American Rubber Mfg. Co.
Arrow Products, Inc.
Baldwin-Lima-Hamilton Corp.
Baughman Manufacturing Co., Inc.
Bodinson Mfg. Co.
Boston Woven Hose & Rubber Co.
Bosworth Mfg. Co.
The E. W. Buschman Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Colson Corp.
Conveyor Co.
J. C. Corrigan Co., Inc.
Cost Reduction Equipment Co.
L. P. Degen Belting Co.
A. B. Farquhar Division,
Harry J. Ferguson Co.
Flexoveyor Mfg. Co.
Food Machinery & Chemical Corp.
General Nailing Machine Corp.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Joy Mfg. Co.
Kolman Manufacturing Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
M-H Standard Corp.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
New London Engineering Co.
Nichols Conveyor & Eng. Co., Inc.
Noble Co.
Samuel Olson Mfg. Co., Inc.
Pacific Coast Ind. Equip. Corp.
Paramount Mfg. Co.
Portland Chain Mfg. Co.
Power-Curve Conveyor Co.
Quaker Rubber Div.
Richardson Scale Co.
Sage Equipment Co., Inc.
Sandvik Steel, Inc.
Speedways Conveyors, Inc.
Standard Conveyor Co.
Stephens-Adamson Mfg. Co.
Universal Hoist Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.
Weigh Right Automatic Scale Co.
West Bend Equipment Corp.
Wilkie Co.

CONVEYORS—bucket

Alden Equipment Co.
Alvey-Ferguson Co., West Coast, Inc.
Baughman Manufacturing Co., Inc.
Bodinson Mfg. Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
Fort Worth Steel & Machinery Div.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link Belt Co.
Lippmann Engineering Works
Mechanical Handling Systems, Inc.
M-H Standard Corp.
Nichols Conveyor & Engineering Co., Inc.
Noble Co.
Rapids Machinery Co., Inc.
Sage Equip. Co., Inc.
Stephens-Adamson Mfg. Co.
Union Chain & Mfg. Co.
Universal Hoist Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.
Weigh Right Automatic Scale Co.
Yuba Consolidated Industries, Inc.

CONVEYORS—chain or link

Alden Equipment Co.
The E. W. Buschman Co.
Carter-Miller Co.
Chain Belt Co.
Chainveyor Corp.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
Electric Steel Foundry Co.
A. B. Farquhar Div., Oliver Corp.
Harry J. Ferguson Co.
Food Machinery & Chemical Corp.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
M-H Standard Corp.
Mathews Conveyer Co., West Coast
May-Fran Eng., Inc.
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
New London Eng. Co.
Pacific Coast Ind. Equip. Corp.
Paramount Corp.
Portland Chain Mfg. Co.
Richards-Wilcox Mfg. Co.
Sage Equipment Co., Inc.
Standard Conveyor Co.
Union Chain & Mfg. Co.
Union Steel Prod. Co.
Universal Cranehoist & Monorail Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.
Wehle Conveyor Co.

CONVEYORS—continuous flow

Alden Equip. Co.
American Monorail Co.
Bosworth Mfg. Co.
Carter-Miller Co.
J. D. Christian Engineers
Colson Corp.
J. C. Corrigan Co., Inc.
Cost Reduction Equip. Co.
Electric Steel Foundry Co.
A. B. Farquhar Div.
Food Machinery & Chemical Corp.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.

Richards-Wilcox Mfg. Co.
Sage Equip. Co., Inc.
Screw Conveyor Pacific Corp.
Standard Conveyor Co.
Universal Cranehoist & Monorail Co.
Universal Hoist Co.
Jervis B. Webb Co. of Calif.
Weigh Right Automatic Scale Co.

CONVEYORS—drag

Alden Equipment Co.
Bodinson Mfg. Co.
Bosworth Mfg. Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
Electric Steel Foundry Co.
A. B. Farquhar Division
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
M-H Standard Corp.
Mathews Conveyer Co., West Coast
May-Fran Eng., Inc.
Mechanical Handling Systems, Inc.
Pacific Coast Ind. Equip. Corp.
Paramount Mfg. Co.
Portland Chain Mfg. Co.
Sage Equip. Co., Inc.
Sauerman Bros., Inc.
Union Chain & Mfg. Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—flight

Alden Equipment Co.
Belt Corp.
Bodinson Mfg. Co.
Bosworth Mfg. Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Convevor Co.
J. C. Corrigan Co., Inc.
Electric Steel Foundry Co.
A. B. Farquhar Div.
Food Machinery & Chemical Corp.
Fort Worth Steel & Machinery Co.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
M-H Standard Corp.
Mathews Conveyer Co. West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Pacific Coast Ind. Equip. Corp.
Portland Chain Mfg. Co.
Sage Equipment Co., Inc.
Union Chain & Mfg. Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.
Weigh Right Automatic Scale Co.

CONVEYORS—foundry

Alden Equipment Co.
American MonoRail Co.
Baughman Mfg. Co., Inc.
Bosworth Mfg. Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Cleveland Tramrail Div., Cleveland Crane & Engineering Co.
Conveyor Co.
J. C. Corrigan Co., Inc.
A. B. Farquhar Div.
Hapman Conveyors, Inc.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Joy Mfg. Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Sage Equipment Co., Inc.
Simplicity Engineering Co.
Standard Conveyor Co.
Universal Cranehoist & Monorail Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—gravity roller

Alvey Conveyor Manufacturing Co.
Arrow Products, Inc.
Belt Corp.
The E. W. Buschman Co.
Carter-Miller Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
Colson Corp.
Colson Equipment & Supply Co.
Conveyor Co.
Cost Reduction Equip. Co.
A. B. Farquhar Div.,
Harry J. Ferguson Co.
Food Machinery & Chemical Corp.,
General Nailing Machine Corp.
Hurt Conveyor Co.
Island Equipment Corp.
Lamson Corp.
Lippmann Engineering Works
Magline, Inc.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Stanley E. Morris Co.
Samuel Olson Mfg. Co., Inc.
Paramount Mfg. Co.
Rack Eng. Co. of Calif., Inc.
Rapids Standard Co.
Sage Equipment Co., Inc.
Speedways Conveyors, Inc.
Standard Conveyor Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.
Wilkie Co.

CONVEYORS—live roller

Alvey Conveyor Manufacturing Co.
Arrow Products, Inc.
Belt Corp.
The E. W. Buschman Co.
Carter-Miller Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
A. B. Farquhar Div.,
Harry J. Ferguson Co.
Food Machinery & Chemical Corp.,
Hurt Conveyor Co.
Island Equipment Co.
Jeffrey Mfg. Co.
Lamson Corp.
Lippmann Engineering Works
M-H Standard Corp.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Stanley E. Morris Co.
Samuel Olson Mfg. Co., Inc.
Pacific Coast Ind. Equip. Corp.
Portland Chain Mfg. Co.
Rapids Standard Co.
Sage Equipment Co.
Standard Conveyor Co.
Washington Belting & Rubber Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—overhead

Alden Equipment Co.
American MonoRail Co.
The E. W. Buschman Co.
Chainveyor Corp.
J. D. Christian Engineers
Cleveland Tramrail Div.
Dearborn Fabricating & Eng. Co.
A. B. Farquhar Div.,
Food Machinery & Chemical Corp.
Forker Corp.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
Louden Machinery Co.
M-H Standard Corp.
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Samuel Olson Mfg. Co., Inc.
Pacific Coast Ind. Equip. Corp.
Rapids Standard Co.
Rapiston-Keystone, Inc.
Richards Wilcox Mfg. Co.
Sage Equip. Co., Inc.
Universal Cranehoist & Monorail Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—pallet

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
The E. W. Buschman Co.
J. D. Christian Engineers
J. C. Corrigan Co., Inc.
A. B. Farquhar Div.
Harry S. Ferguson Co.
Flexoveyor Mfg. Co.
Food Machinery & Chemical Corp.,
Hapman Conveyors, Inc.
Hartman Metal Fabricators, Inc.
Hurt Conveyor Co.
Island Equipment Corp.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Stanley E. Morris Co.
Rack Engineering Co. of Calif., Inc.
Rapids Standard Co.
Roll Rite Corp.
Sage Equipment Co.
Standard Conveyor Co.
Jervis B. Webb Co. of Calif.
Wehle Conveyor Co.
West Bend Equip. Corp.

CONVEYORS—pneumatic

The Day Co.
Fort Worth Steel & Machinery Co.
Fuller Co.
Lamson Corp.

CONVEYORS—portable

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
Arrow Products, Inc.
Baughman Manufacturing Co., Inc.
Belt Corp.
Bodinson Mfg. Co.
Bosworth Mfg. Co.
The E. W. Buschman Co.
Carter-Miller Co.
Chantland Manufacturing Co.
Colson Corp.
J. C. Corrigan Co. Inc,
Cost Reduction Equip. Co.
A. B. Farquhar Div.,
Harry J. Ferguson Co.
Flexoveyor Mfg. Co.
General Nailing Machine Corp.
Hapman Conveyors, Inc.
E. C. Horne Machinery Co.
Hurt Conveyor Co.
Island Equipment Corp.
Joy Mfg. Co.
Lamson Corp.
Lippmann Engineering Works
M-H Standard Corp.
Magline, Inc.
Mathews Conveyer Co., West Coast
May-Fran Engineering, Inc.
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Stanley E. Morris Co.
Noble Co.
Samuel Olson Mfg. Co., Inc.
Paramount Mfg. Co.
Portland Chain Mfg. Co.
Power-Curve Conveyor Co.
Richardson Scale Co.
Sage Equipment Co.
Speedways Conveyors, Inc.
Standard Conveyor Co.
Jervis B. Webb Co. of Calif.
Wilkie Co.

CONVEYORS—screw

Alden Equipment Co.
Baughman Manufacturing Co., Inc.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
Conveyor Co.
J. C. Corrigan Co., Inc.
Fort Worth Steel & Machinery Co.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Lippmann Engineering Works
Mechanical Handling Systems, Inc.
M-H Standard Corp.
Noble Co.
Rapids Machinery Co. Inc.
Richardson Scale Co.
Screw Conveyor Pacific Corp.
Washington Belting & Rubber Co.

CONVEYORS—skate

Alvey Conveyor Manufacturing Co.
American Pulley Co.
Arrow Products, Inc.
The E. W. Buschman Co.
Carter-Miller Co.
Chantland Manufacturing Co.
Colson Corp.
Colson Equipment & Supply Co.
Conveyor Co.

A. B. Farquhar Div.,
Harry J. Ferguson Co.
General Nailing Machine Corp.
Hurt Conveyor Co.
Island Equipment Corp.
Lamson Corp.
Lippmann Engineering Works
Mathews Conveyer Co., West Coast
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Stanley E. Morris Co.
Paramount Mfg. Co.
Rack Engineering Co. of Calif., Inc.
Sage Equipment Co., Inc.
Speedways Conveyors, Inc.
Standard Conveyor Co.
Wilkie Co.

CONVEYORS—slat

Alden Equipment Co.
Alvey Conveyor Manufacturing Co.
The E. W. Buschman Co.
Carter-Miller Co.
Chain Belt Co.
Chantland Manufacturing Co.
Colson Equipment & Supply Co.
J. C. Corrigan Co., Inc.
Cost Reduction Equip. Co.
Harry J. Ferguson Co.
Hapman Conveyors, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Lamson Corp.
Link-Belt Co.
Lippmann Engineering Works
M-H Standard Corp.
Mathews Conveyor Co., West Coast
May-Fran Eng., Inc.
Mechanical Handling Systems, Inc.
Pacific Coast Ind. Equip. Corp.
Sage Equipment Co., Inc.
Standard Conveyor Co.
Union Chain & Mfg. Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—trolley

Alden Equipment Co.
American MonoRail Co.
The E. W. Bushman Co.
Cleveland Tramrail Div.
Dearborn Fabricating & Eng. Co.
A. B. Farquhar Div.,
Hurt Conveyor Co.
Lamson Corp.
Link-Belt Co.
Mathews Conveyor Co., West Coast
Mechanical Handling Systems, Inc.
Pacific Coast Ind. Equip. Corp.
Rapistan-Keystone, Inc.
Richards-Wilcox Mfg. Co.
Sage Equip. Co., Inc.
Universal Cranehoist & Monorail Co.
Jervis B. Webb Co. of Calif.

CONVEYORS—vibrating

Alden Equip. Co.
Carrier Conveyor Corp.
J. D. Christian Engineers
Conveyor Co.
General Nailing Machine Corp.
Hewitt-Robins, Inc.
Jeffrey Mfg. Co.
Link-Belt Co.
Simplicity Engineering Co.
Stephens-Adamson Mfg. Co.
Washington Belting & Rubber Co.

CONVEYORS—zipper

Stephens-Adamson Mfg. Co.

CONVEYORS—special and other

Alvey Conveyor Manufacturing Co.
Bosworth Mfg. Co. (vertical)
The E. W. Buschman Co.
Chantland Manufacturing Co.
J. D. Christian Engineers
J. C. Corrigan Co., Inc.
Cost Reduction Equip. Co. (steel belt)
Dings Magnetic Separator Co. (magnetic)
Flexoveyor Mfg. Co. (flexible)
Hapman Conveyors, Inc.
Lamson Corp.
Link-Belt Co. (oscillating, truck tow, reciprocating feeders, vertical)
M-H Standard Corp.
Mathews Conveyer Co., West Coast, Inc. (vertical)
May-Fran Engineering, Inc. (steel belt)
Mechanical Handling Systems, Inc. (vertical)
Rack Engineering Co. of Calif., Inc.
Sage Equipment Co., Inc.
Universal Cranehoist & Monorail Co.
Universal Hoist Co. (bulk)
Jervis B. Webb Co. of Calif. (vertical)

CRANES—charging and drawing

Alden Equipment Co.
Crane Hoist Eng. Corp.
Ederer Eng. Co.
Manning, Maxwell & Moore, Inc.
Pacific Coast Eng. Co.
Star Iron & Steel Co.
Vanguard Eng. Co.

CRANES—gantry

Alden Equipment Co.
All-State Engineering Co., Inc.
American Hoist & Derrick Co.
American MonoRail Co.
Berger Engineering Co.
Borg-Warner Corp.
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Clyde Iron Works
Colby Steel & Manufacturing, Inc.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Ederer Engineering Co.
Forker Corp.
Koehring Div.
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Pacific Coast Engineering Co.
Philadelphia Chain Block & Mfg. Co., Inc.
David Round & Son, Inc.
Rack Engineering Co. of California,. Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.
Yuba Consolidated Industries, Inc.

CRANES—hand power

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Chisholm-Moore Hoist Div.,
Cleveland Tramrail Div.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Ederer Engineering Co.
Forker Corp.
Grand Specialties Co.
Harnischfeger Corp.
Harrington Co.
Industrial Crane & Hoist Div.,
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc.
David Round & Son, Inc.
Sasgen Derrick Co.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Star Machine & Tool Co.
Thern Machine Co.
Uhrden, Inc.
Unit Mfg. Co.
Universal Cranehoist & Monorail Co.
Vanguard Eng. Co.

CRANES—jib, pillar, swing, bracket

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Berger Engineering Co.
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Conco Engineering Works
Cost Reduction Equip. Co.
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Downs Crane & Hoist Co.
Forker Corp.
Harnischfeger Corp.
Industrial Crane & Hoist Div., Borg-Warner Corp.
LeTourneau-Westinghouse Co.
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Nichols Conveyor & Engineering Co., Inc.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
David Round & Son, Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Thern Machine Co.
Universal Cranehoist & Monorail Co.
Yuba Consolidated Industries, Inc.

CRANES—overhead, double beam

Alden Equip. Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Berger Engineering Co.
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Downs Crane & Hoist Co.
Ederer Engineering Co.
Forker Corp.
Harnischfeger Corp.
Industrial Crane & Hoist Div.,
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Robbins & Myers, Inc.
David Round & Son, Inc.
Pacific Coast Eng. Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.
Yuba Consolidated Industries, Inc.

CRANES—overhead, electric and electric traveling

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Berger Engineering Co.
Cleveland Tramrail Div.
Colby Steel & Mfg. Inc.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Downs Crane & Hoist Co.
Ederer Engineering Co.
Harnischfeger Corp.
Industrial Crane & Hoist Div.,
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Pacific Coast Engineering Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc.
David Round & Son, Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.
Vanguard Eng. Co.
Yuba Consolidated Industries, Inc.

CRANES—overhead, foundry

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American Monorail Co.
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Ederer Engineering Co.
Forker Corp.
Harnischfeger Corp.
Industrial Crane & Hoist Div., Borg-Warner Corp.

Louden Machinery Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Pacific Coast Engineering Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
David Round & Son, Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.
Yuba Consolidated Industries, Inc.

CRANES—overhead, hand power traveling

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Chisholm Moore Hoist Div., Cleveland Tramrail Div.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Ederer Engineering Co.
"HH" Mfg.
Harnischfeger Corp.
Harrington Co.
Industrial Crane & Hoist Div., Louden Machinery Co.
Manning, Maxwell & Moore, Inc., Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc.
David Round & Son, Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.

CRANES—overhead, "I" beam

All-State Engineering Co., Inc.
American Chain & Cable Co.
Chisholm-Moore Hoist Div.
J. D. Christian Engineers
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Ederer Engineering Co.
Forker Corp.
Harnischfeger Corp.
Harrington Co.
Industrial Crane & Hoist Div., Louden Machinery Co.
Manning, Maxwell & Moore, Inc., Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc., David Round & Son, Inc.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.

CRANES—overhead, monorail

Alden Equipment Co.
All-State Engineering Co., Inc.
American Chain & Cable Co.
American MonoRail Co.
Borg-Warner Corp.
Crane Hoist Engineering Co.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Ederer Engineering Co.
Forker Corp.
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.
Philadelphia Chain Block & Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
Schultz Materials Handling Corp.
Shepard Niles Crane & Hoist Corp.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.

CRANES—yard (truck, tractor)

American Hoist & Derrick Co.
Austin-Western Div.
Baker Industrial Trucks
Baldwin-Lima-Hamilton Corp.
Bucyrus-Erie Co.
Coles Cranes, Inc.
Cost Reduction Equip. Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
"HH" Manufacturers
Hughes-Keenan Corp.
Hyster Co.
Insley Mfg. Corp.
Koehring Div.
Kolman Mfg. Co.
LeTourneau-Westinghouse Co.
Marion Power Shovel Co.
Shield Bantam Co.
Silent Hoist & Crane Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.

CRANES—other

Anthony Co. (truck)
Austin-Western Div. (hydraulic)
Cullen-Friestedt Co. (locomotive)
Daybrook Hydraulic Div.
Hughes-Keenan Corp.
Mefco Sales & Service Corp. (controls for precision operation & weighing)
Revolvator Co. (portable)
David Round & Son, Inc.
Shepard Niles Crane & Hoist Corp. (transfer, underhung, grab bucket)
Star Machine & Tool Co. (portable floor, truck mounting)
Thern Machine Co. (portable)
Unit Crane & Shovel Corp. (crawler, mobile)
Vanguard Eng. Co. (precision electric truck)

DOCK BOARDS

Beacon Machinery, Inc.
Bronco Products Co.
Copperloy Corp.
Elizabeth Iron Works, Inc.
Hartman Metal Fabricators, Inc.
Kelley Co.
F. H. Langsenkamp Co.
Magline, Inc.
Magnesium Co. of America.
Penco Engineering Co.
Roll Rite Corp.
Rotary Lift Co.

DOLLIES—(see TRUCKS—dolly)

DOOR CONTROLS

National Pneumatic Co., Inc.
Richards-Wilcox Manufacturing Co.

ELEVATORS—barrel, package, etc.

Alden Equip. Co.
Barrett-Cravens Co.
Chain Belt Co.
J. D. Christian Engineers
Economy Engineering Co.
Flexoveyor Mfg. Co.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Mechanical Handling Systems, Inc.
Rotary Lift Co.
West Bend Equipment Corp.

ELEVATORS—belt

Alden Equipment Co.
American Rubber Mfg. Co.
Baughman Mfg. Co., Inc.
Boston Woven Hose & Rubber Co.
Carter-Miller Co.
Chain Belt Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co. Inc.
L. P. Degen Belting Co.
General Nailing Machine Corp.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co
M-H Standard Corp.
Mechanical Handling Systems, Inc.
Metzgar Conveyor Co.
Nichols Conveyor & Engineering Co., Inc.
Paramount Mfg. Co.
Quaker Rubber Div.
Raybestos-Manhattan, Inc.
Screw Conveyor Pacific Corp.
Universal Hoist Co.
Washington Belting & Rubber Co.
Weigh Right Automatic Scale Co.

ELEVATORS—bucket

Alden Equipment Co.
Baughman Mfg. Co., Inc.
Bosworth Mfg. Co.
Carter-Miller Co.
Chain Belt Co.
J. D. Christian Engineers
Conveyor Co.
J. C. Corrigan Co., Inc.
General Nailing Machine Corp.
Grand Specialties Co.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Link-Belt Co.
Lippmann Engineering Works
M-H Standard Corp.
Mechanical Handling Systems, Inc.
Nichols Conveyor & Engineering Co., Inc.
Noble Co.
Rapids Machinery Co., Inc.
Raybestos-Manhattan, Inc.
Screw Conveyor Pacific Corp.
Stephens-Adamson Mfg. Co.
Union Chain & Mfg. Co.
Universal Hoist Co.
Washington Belting & Rubber Co.
Weigh Right Automatic Scale Co.

ELEVATORS—continuous flow

Alden Equip. Co.
Carter-Miller Co.
J. D. Christian Engineers
Conveyor Co.
Fort Worth Steel & Mach. Co.
General Nailing Machine Corp.
Jeffrey Mfg. Co.
Mechanical Handling Systems, Inc.
Screw Conveyor Pacific Corp.
Universal Hoist Co.
Weigh Right Automatic Scale Co.

ELEVATORS—portable tiering

American Pulley Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Colson Equipment & Supply Co.
Cost Reduction Equip. Co.
Economy Engineering Co.
Fort Worth Steel & Mach. Co.
Grand Specialties Co.
Lee Engineering Co.
Metzgar Conveyor Co.
Paramount Mfg. Co.
Revolvator Co.
Tubular Structures Corp. of America
West Bend Equipment Co.

ELEVATORS—other

Barrett-Cravens Co. (floor to floor)
Carrier-Conveyor Corp. (vibrating spiral)
J. D. Christian Engineers
Colby Steel & Mfg. Inc. (dockside)
Field Eng. Prod. Co.
Flexoveyor Mfg. Co. (bag)
Globe Pacific Hoist Co.
Grand Specialties Co. (hydraulic)
Link-Belt Co. (screw & vertical)
Nichols Conveyor & Engineering Co., Inc.
Rotary Lift Co. (freight & passenger oil hydraulic)
Universal Hoist Co.

GRABS

Alden Equipment Co.
Cady Metal Fabricating Co.
Cleveland Tramrail Div.
Cullen-Friestedt Co.
Downs Crane & Hoist Co.
Fab-Weld Corp.
Grand Specialties Co.
Heppenstall Co.
Merrill Bros.
Rack Engineering Co. of Calif, Inc.
Star Machine & Tool Co.
Universal Cranehoist & Monorail Co.

GRAPPLES

Cullen-Friestedt Co.
Downs Crane & Hoist Co.
Ederer Engineering Co.
Electric Steel Foundry Co.
Star Iron & Steel Co.
Universal Cranehoist & Monorail Co.

HOISTS—air

Cleveland Tramrail Div., Cleveland Crane & Engineering Co.
Crane Hoist Eng. Co.
CraneVeyor Corp.
Curtis Mfg. Co.
Detroit Hoist & Machine Co.
Forker Corp.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Mfg. Co.
Manning, Maxwell & Moore, Inc.
Sauerman Bros, Inc.
Thor Power Tool Co.

HOISTS—bucket

J. D. Christian Engineers
Crane Hoist Eng. Co.
Cyclops Iron Works
Harnischfeger Corp.

HOISTS—chain

Alden Equip. Co.
American Chain & Cable Co.
Chester Hoist Div.
Chisholm-Moore Hoist Div.,
J. D. Christian Engineers
Cleveland Tramrail Div.
Coffing Hoist Div., Duff Norton Co.
Conco Engineering Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Forker Corp.
Harnischfeger Corp.
Harrington Co.
Ingersoll-Rand Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co.
Robbins & Myers, Inc.
David Round & Son, Inc.
Thern Machine Co.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—crane

Alden Equip. Co.
American Hoist & Derrick Co.
Austin-Western Div.
Baker Industrial Trucks
Barrett-Cravens Co.
Berger Engineering Co.
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Conco Engineering Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Downs Crane & Hoist Co.
Ederer Engineering Co.
Forker Corp.
"HH" Manufacturers
Harnischfeger Corp.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Robbins & Myers, Inc.,
Thern Machine Co.
Unit Mfg. Co.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—derrick

American Hoist & Derrick Co.
Berger Engineering Co.
Clyde Iron Works
Downs Crane & Hoist Co.
Grand Specialties Co.
Harnischfeger Corp.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Sasgen Derrick Co.

HOISTS—drum

American Hoist & Crane Co.
Barrett-Cravens Co.
Berger Engineering Co.
J. D. Christian Engineers
Chisholm-Moore Hoist Div.
Cleveland Tramrail Div.
Clyde Iron Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Ederer Engineering Co.
Electrolift, Inc.
Gardner-Denver Co.
"HH" Mfg.
Harnischfeger Corp.
Hewitt-Robins, Inc.
Ingersoll-Rand Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Robbins & Myers, Inc.
Sasgen Derrick Co.
Sauerman Bros., Inc.
West Bend Equip. Corp.
Yuba Consolidated Industries, Inc.

HOISTS—electric

Alden Equip. Co.
American Chain & Cable Co.
American Engineering Co.
American Hoist & Derrick Co.
Barrett-Cravens Co.
Berger Engineering Co.
Chester Hoist Div.,
Chisholm-Moore Hoist Div.,
J. D. Christian Engineers
Cleveland Tramrail Div., Cleveland Crane & Engineering Co.
Clyde Iron Works
Coffing Hoist Div., Duff-Norton Co.
Conco Engineering Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Downs Crane & Hoist Co.
Ederer Engineering Co.
Electrolift, Inc.
Forker Corp.
Globe Hoist Co.
Harnischfeger Corp.
Harrington Co.
Ingersoll-Rand Co.
Joy Mfg. Co.
Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Robbins & Myers Inc.
David Round & Son, Inc.
Sasgen Derrick Co.
Sauerman Bros, Inc.
Shepard Niles Crane & Hoist Corp.
Unit Mfg. Co.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—gasoline

American Hoist & Derrick Co.
Clyde Iron Works
"HH" Mfg. Co.
Joy Mfg. Co.
Sasgen Derrick Co.
Sauerman Bros., Inc.

HOISTS—hand

American Chain & Cable Co.
Barrett-Cravens Co.
Chester Hoist Div.
Chisholm-Moore Hoist Div.,
Conco Engeneering Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Duff-Norton Co.
Forker Corp.
Grand Specialties Co.
Harnischfeger Corp.
Harrington Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Multiple Corp.
Philadelphia Chain Block & Mfg. Co.
Robbins & Myers, Inc.,
David Round & Son, Inc.
Sasgen Derrick Co.
Thern Machine Co.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—hydraulic

Anthony Co.
Cleveland Tramrail Div.
Colson Corp.
Curtis Mfg. Co.
Cyclops Iron Works
Daybrook Hydraulic Div.
G. W. Galloway Co.
Gar Wood Industries, Inc.
Globe Hoist Co.
Globe Pacific Hoist Co.
Grand Specialties Co.
"HH" Mfg.
Manning, Maxwell & Moore, Inc.
Marion Metal Products Co. (dump truck)
Nichols Conveyor & Engineering Co., Inc.
Rotary Lift Co.
Star Machine & Tool Co.
Tube-Strut Corp.
Tubular Structures Corp. of America
Uhrden, Inc.
Unit Mfg. Co.

HOISTS—monorail

Alden Equip. Co.
American Engineering Co.
American MonoRail Co.
Chester Hoist Div.,
Chisholm-Moore Hoist Div.,
Cleveland Tramrail Div.
Conco Engineering Co.
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Detroit Hoist & Machine Co.
Ederer Eng. Co.
Electrolift, Inc.
Forker Corp.
Harnischfeger Corp.
Harrington Co.
Louden Machinery Co.
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Philadelphia Chain Block & Mfg. Co., Inc.
Robbins & Myers, Inc.,
Shepard Niles Crane & Hoist Corp.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—portable

American Chain & Cable Co.
Barrett-Cravens Co.
Colson Corp.
Crane Hoist Eng. Co.
CraneVeyor Corp.
Duff-Norton Corp.
Economy Engineering Co.
Electrolift, Inc.
G. W. Galloway Co.
Globe Hoist Co.
Grand Specialties Co.
"HH" Mfg.
Harnischfeger Corp.
Ingersoll-Rand Co.
Joy Mfg. Co.
Manning, Maxwell & Moore, Inc.,
Stanley E. Morris Co.
Multiple Corp.
Philadelphia Chain Block & Mfg. Co., Inc.
Robbins & Myers, Inc.,
David Round & Son, Inc.
Star Machine & Tool Co.
Tube-Strut Corp.
Tubular Structures Corp. of America
Uhrden, Inc.
Unit Mfg. Co.
Universal Cranehoist & Monorail Co.

HOISTS—skip

J. D. Christian Engineers
Downs Crane & Hoist Co.
Harnischfeger Corp.
Hewitt-Robins, Inc.
Jeffrey Mfg. Co.
Link-Belt Co.
Shepard Niles Crane & Hoist Corp.

HOISTS—traveling

American Chain & Cable Co.
Chester Hoist Div.
Chisholm-Moore Hoist Div.
Conco Engineering Works
Crane Hoist Eng. Co.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Ederer Engineering Co.
Electrolift, Inc.
Forker Corp.
Harnischfeger Corp.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Robbins & Myers, Inc.
Shepard Niles Crane & Hoist Corp.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

HOISTS—other

Multiple Corp.
David Round & Son, Inc. (trolley)
Shepard Niles Crane & Hoist Corp. (close clearance, base mounted hot metal carriers)
Thern Machine Co. (lever)

HOPPERS

Bathey Mfg. Co.

Brummeler Steel Prod. Corp.
J. C. Corrigan Co., Inc.
Day Co.
Fab-Weld Corp.
Gar-Bro Mfg. Co.
General Nailing Machine Corp.
Ingersoll-Kalamazoo Div.
Noble Co.
Pacific Coast Ind. Equip. Corp.
Paramount Mfg. Co.
The Union Metal Mfg. Co.
Yuba Consolidated Industries, Inc.

IDLERS—conveyor

American Rubber Mfg. Co.
Chain Belt Co.
General Nailing Machine Corp.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Joy Mfg. Co.
Portland Chain Mfg. Co.
Washington Belting & Rubber Co.

JACKS—hydraulic

L. P. Degan Belting Co.
L. B. Foster Co.
Globe Hoist Co.
Globe Pacific Hoist Co.
Grand Specialties Co.
Hein-Werner Corp.
H. K. Porter, Inc.
Rotary Lift Co.
Rucker Co.
Templeton, Kenly & Co.

JACKS—lift

Colson Corp.
Globe Pacific Hoist Co.
Grand Specialties Co.
"HH" Mfg.
Hamilton Caster & Mfg. Co.
Hamilton Tool Co.
Ironbound Box & Lumber Co.
Lansing Co.
Templeton, Kenly & Co.

JACKS—screw

Hamilton Tool Co.
Templeton, Kenly & Co.

LOADERS, UNLOADERS—portable and self-propelled

American Hoist & Derrick Co.
Baker Industrial Trucks
Carter-Miller Co.
J. D. Christian Engineers.
John Deere Ind. Div.
Eimco Corp.
Flexoveyor Mfg. Co.
Grand Specialties Co.
"HH" Manufacturers
E. C. Horne Machinery Co.
The Frank G. Hough Co.
LeTourneau-Westinghouse Co.
Link-Belt Co. (railroad car)
Lippmann Engineering Works
Metzgar Conveyor Co.
Power-Curve Conveyor Co.
Silent Hoist & Crane Co.
Stephens-Adamson Mfg. Co.
Thew Shovel Co. (shovels and attachments mounted on crawlers and rubber-tire carriers)
Tractomotive Corp.

LOADERS, UNLOADERS—tailgate

Daybrook Hydraulic Div.
Grand Specialties Co.

LP-GAS EQUIPMENT—

American Liquid Gas Corp.
Beam Products Mfg. Co.
Century Gas Equipment Co.
Ensign Carburetor Co.

MAGNETS

Dings Magnetic Separator Co.
E C & M Div.
Stearns Electric Corp.
Universal Cranehoist & Monorail
Vanguard Eng. Co.

MARKING EQUIPMENT

W. H. Brady Co.
Cost Reduction Equip. Co.
Diagraph-Bradley Industries, Inc.
General Nailing Machine Corp.
Adolph Gottscho, Inc.
Industrial Marketing Equipment Co. (automatic)
Multistamp Co.
P. F. O'Donnell Co.
Standard-Knapp Div. of Emhart Mfg. Co.
H. C. Sweet Co.
Weber Marking Systems Div., Weber Addressing Machine Co., Inc.

PACKAGING MACHINERY

ABC Packaging Machine Corp.
Bemis Brothers Bag Co.
Derby Sealers, Inc.
General Nailing Machine Corp.
Pak-Rapid, Inc.
Paramount Mfg. Co.
Richardson Scale Co.
Rucker Co.
Standard-Knapp Div.
H. L. Stoker Co.
Weigh Right Automatic Scale Co.

PACKING MATERIAL

American Sisalkraft Corp.
Boston Woven Hose & Rubber Co.
Fibreboard Paper Products Corp.
FlintKote Co.
Portco Corp.
Sackner Products, Inc.
Sherman Paper Products Corp. of Calif.

PALLET LOADERS

Alvey Conveyor Manufacturing Co.
Beacon Machinery Co.
Flexoveyer Mfg. Co.
Food Machinery & Chemical Corp.,
J. W. Greer Co.
Lamson Corp.
Missile-Aircraft Ground Equip. Supply Co.
Thern Machine Co

PALLETS

Auto Sheet Metal Works (steel)
Berger Div.
Brummeler Steel Prod. Corp.
Bulldog Pallet Co.
J. I. Case Co.
Colorado Fuel & Iron Corp.
Colson Corp.
Cost Reduction Equip. Co.
Fab-Weld Corp.
Food Machinery & Chemical Corp.
Hartman Metal Fabricators
Hunter Woodworks
Industrial Skid & Pallet Co.
Ironbound Box & Lumber Co.
F. N. Langsenkamp Co.
Petley, Inc.
Pioneer Pallet Co.
Portco Corp.
Powell Pressed Steel Co. (steel)
Rack Engineering Co. of Calif., Inc. (steel, wire)
Randolph Ind. Equip. Co.
Roll Rite Corp.
Springport Steel Products Co.
Thern Machine Co.
Union Metal Mfg. Co.
Union Steel Products Co. (wire)

PLATFORMS—loading

The Ballymore Co.
Field Eng. Prod. Co.
Globe Hoist Co.
Globe Pacfic Hoist Co.
"HH" Mfg.
Hamilton Tool Co.
Hartman Metal Fabricators
Magline, Inc.
Magnesium Co. of America
Stanley E. Morris Co.
Raymond Corp.
Roll Rite Corp.
Union Metal Mfg. Co.

PULLEYS—conveyor

American Pulley Co.
Bodinson Mfg. Co.
Bosworth Mfg. Co.
Brown Rubber Co.
Carter-Miller Co.
Chain Belt Co.
Conveyor Co.
R & J Dick Co.
Dodge Mfg. Co.
General Nailing Machine Corp.
Hewitt-Robins, Inc.
Hurt Conveyor Co.
Jeffrey Mfg. Co.
Joy Mfg. Co.
Kolman Mfg. Co.
Link-Belt Co.
Lippmann Engineering Works
Mathews Conveyer Co., West Coast
Paramount Mfg. Co.
Washington Belting & Rubber Co.

PULLEYS—magnetic

Dings Magnetic Separator Co.
Hurt Conveyor Co.
Stearns Electric Corp.
Washington Belting & Rubber Co.

PULLEYS—other

R & J Dick Co.
Gerbing Mfg. Co. (variable speed)
Link-Belt Co. (power transmission)
Washington Belting & Rubber Co.

PUMPS—liquid handling

Aurora Pump Div.
John Bean Div.
Blackmer Pump Co.
Chain Belt Co.
Deming Co.
Fairbanks, Morse & Co.
Goulds Pumps, Inc.
Hein-Werner Corp.
Ingersoll-Rand Co.
Kinney Mfg. Div.
Lincoln Engineering Co.
Marlow Pumps
Pacific Pumps, Inc.
Pacific Pumping Co.
Rucker Co.
Tuthill Pump Co. (rotary)
Viking Pump Co.
Warren Pumps, Inc.
John Wood Co.

RACKS—pallet

Acme Steel Co.
Alden Equipment Co.
American Metal Products Co.
Auto Sheet Metal Works
Barrett-Cravens Co.
Bathey Mfg. Co.
Berger Div.
Brummeler Steel Prod. Corp.
Burlington Fabricators, Inc.
Fab-Weld Corp.
Hartman Metal Fabricators, Inc.
The Hollaender Mfg. Co.
Mechanical Handling Systems, Inc.
Mid-West Wire Prod. Co., Inc.
M-H Standard Corp.
Paltier Corp.
Petley, Inc.
Rack Engineering Co. of Calif., Inc.
Roll Rite Corp.
Sammons & Sons
Sturdi-Bilt Engineering Co.
Ed Sullivan Equip. Eng. Services
Tube-Strut Corp.
Unistrut Products Co.
West Bend Equip. Corp.

RACKS—storage

Acme Steel Co.
Alden Equipment Co.
American Metal Products Co.
Barrett-Cravens Co.
Bathey Mfg. Co.
Berger Div.
Borroughs Mfg. Co.
Brummeler Steel Prod. Corp.
Colson Corp.
Equipto Div.,
Fab-Weld Corp.
Hartman Metal Fabricators, Inc.
The Hollaender Mfg. Co.
Jarke Mfg. Co.
Lamson Corp.
Lyon Metal Prod., Inc.
Mechanical Handling Systems, Inc.
M-H Standard Corp.
Paltier Corp.
Penco Metal Prod. Div.
Petley, Inc.
Rack Engineering Co. of Calif., Inc.
Roll Rite Corp.
Sammons & Sons
Sturdi-Bilt Engineering Co.
Ed Sullivan Equip. Eng. Services
Tube-Strut Corp.
Union Steel Products Co.
Unistrut Products Co.
West Bend Equipment Corp.
Worley & Co.

RACKS—other

American Metal Products Co. (skid, drum, tiering, coil)
Barrett-Cravens Co. (barrel, drum)
Blackman Plastics (plastic)
Borroughs Mfg. Co. (shelving)
Brooks & Perkins, Inc. (transfer)
Burlington Fabricators, Inc.
CraneVeyor Corp. (slotted angle)
Flex Angle Corp. (flexangle universal slotted angle systems)
"HH" Mfg.
Hartman Metal Fabricators, Inc. (die storage, drum storage, bar stock storage)
Hollaender Mfg. Co. (specialized)
Mechanical Handling Systems, Inc.
M-H Standard Corp. (gravity storage)
Paltier Corp. (portable)
Petley, Inc. (drum)
Pressteel Co. (bench)
Rack Engineering Co. of Calif., Inc. (rack conveyors, special design)
Randolph Ind. Equip. Co.
Revolvator Co. (drum and barrel)
Roll Rite Corp.
Sammons & Sons
Storage Products Corp.
Sturdi-Bilt Engineering Co. (dies, skids, bulk)
Tube-Strut Corp. (gen'l purpose)
Unistrut Products Co.

RAMPS—loading, etc.

Beacon Machinery, Inc.
Bronco Products Co.
Elizabeth Iron Works, Inc.
Field Eng. Prod. Co.
G. W. Galloway Co.
Globe Hoist Co.
Globe Pacific Hoist Co.
Hartman Metal Fabricators, Inc.
F. N. Langsenkamp Co.
Magline, Inc.
Magnesium Co. of America
Missle-Aircraft Ground Equip. Supply Co.
Stanley E. Morris Co.
Penco Engineering Co.
Roll Rite Corp.
Rotary Lift Co.
Rowe Methods, Inc.

ROLLERS—conveyor

Arrow Products, Inc.
Brown Rubber Co.
Carter-Miller Co.
Harry J. Ferguson Co.
General Nailing Machine Corp.
Hurt Conveyor Co.
Island Equip. Corp.
Link-Belt Co.
Lippmann Eng. Works
Mathews Conveyer Co., West Coast
Metzgar Conveyor Co.
Stanley E. Morris Co.
Paramount Mfg. Co.
Rack Engineering Co. of Calif., Inc.
Thistle Roller & Mfg. Co.
Washington Belting & Rubber Co.

ROLLERS—other

Metzgar Conveyor Co. (nylon bearing)
Missile-Aircraft Ground Equip. Supply Co. (pallet machinery)
Thistle Roller & Mfg. Co.

SCALES—automatic

Conveyor Co.
Exact Weight Scale Co.
Fairbanks, Morse & Co.
General Nailing Machine Corp.
Harnischfeger Corp.
Howe Scale Co.
Noble Co.
Richardson Scale Co.
Rucker Co.
Taller & Cooper, Inc.

SCALES—conveyor

Cleveland Tramrail Div.
Conveyor Co.
Fairbanks, Morse & Co.
General Nailing Machinery Corp.
Howe Scale Co.
Streeter-Amet Co.
Universal Cranehoist & Monorail Co.

SCALES—counting

Fairbanks, Morse & Co.
General Nailing Machine Corp.
Howe Scale Co.
Taller & Cooper, Inc.
Technibilt Corp.

SCALES—monorail

American MonoRail Co.
Cleveland Tramrail Div.
Fairbanks, Morse & Co.
Howe Scale Co.
Streeter-Amet Co.
Universal Cranehoist & Monorail Co.

SCALES—packaging

Exact Weight Scale Co.
Fairbanks, Morse & Co.
General Nailing Machine Corp.
Howe Scale Co.
Richardson Scale Co.
Rucker Co.
Weigh Right Automatic Scale Co.

SCALES—portable

W. C. Dillon & Co.
Exact Weight Scale Co.
Fairbanks, Morse & Co.
General Nailing Machine Corp.
Howe Scale Co.
Hydroway Scales, Inc.
Manning, Maxwell & Moore, Inc.
Richardson Scale Co.
Technibilt Corp.

SCALES—warehouse

Fairbanks, Morse & Co.
Howe Scale Co.
Streeter-Amet Co.
Taller & Cooper, Inc.

SCALES—other

W. C. Dillon & Co.
Fairbanks, Morse & Co.
Howe Scale Co.
Martin-Decker Corp. (lift-truck, crane weight indicators)
Mefco Sales & Service Corp. (crane)
Noble Co. (batching)
Streeter-Amet Co. (crane)
Technibilt Corp. (hanging)

SKIDS

Barrett-Cravens Co.
Berger Div.
Bond Foundry & Machine Co.
Brummeler Steel Prod. Corp.
Colson Corp.
Cost Reduction Equip. Co.
Fab-Weld Corp.
The Hamilton Caster & Mfg. Co.
Hartman Metal Fabricators, Inc.
Industrial Skid & Pallet Co.
Ironbound Box & Lumber Co.
Lansing Co.
McDermott & Greene
Stanley B. Morris Co.
Petley, Inc.
Pioneer Pallet Co.
Powell Pressed Steel Co.
Geo. M. Prescott Co.
Revolvator Co.
Thern Machine Co.
The Union Metal Mfg. Co.
West Bend Equip. Corp.

SLINGS—belt or canvas

Buffalo Weaving & Belting Co.
L. P. Degen Belting Co.
R & J Dick Co.
Downs Crane & Hoist Co.
Hewitt-Robins, Inc.
Stanley E. Morris Co.
Raybestos-Manhattan, Inc.
Republic Rubber Div.
Thermoid Co.
Ton-Tex Corp.

SLINGS—chain

American Chain & Cable Co.
Campbell Chain Co.
Columbus McKinnon Chain Corp.
Downs Crane & Hoist Co.
Manning, Maxwell & Moore, Inc.
Stanley E. Morris Co.
Portland Chain Mfg. Co.
Star Machine & Tool Co.
Universal Cranehoist & Monorail Co.

SLINGS—rope

Downs Crane & Hoist Co.
Jones & Laughlin Steel Corp.

SLINGS—wire rope

American Chain & Cable Co.
Broderick & Bascom Rope Co.
Colorado Fuel and Iron Corp.
Columbia-Geneva Div.
Downs Crane & Hoist Co.
Electric Steel Foundry Co.
Jones & Laughlin Steel Corp.
Macwhyte Wire Rope Co.
Stanley E. Morris Co.
John A. Roebling's Sons Corp.
Ed Sullivan Equip. Eng. Services
Union Wire Rope Corp.
Universal Cranehoist & Monorail Co.

SLINGS—other

Brown Rubber Co. (rubber covered)
Cambridge Wire Cloth Co. (woven wire)
Stanley E. Morris Co. (gripper)

STACKERS—portable electric

American Pulley Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Bodinson Mfg. Co.
Carter-Miller Co.
Economy Engineering Co.
Grand Specialties Co.
Hamilton Tool Co.
Lee Engineering Co.
Mathews Conveyer Co., West Coast
Stanley E. Morris Co.
Raymond Corp.
Uhrden, Inc.
Vanguard Eng. Co.
West Bend Equipment Corp.

STACKERS—portable hand

American Pulley Co.
Barrett-Cravens Co.
Economy Engineering Co.
Grand Specialties Co.
Hamilton Tool Co.
Lee Engineering Co.
Mathews Conveyer Co., West Coast
Stanley E. Morris Co.
Raymond Corp.
Thern Machine Co.
Uhrden, Inc.
West Bend Equipment Corp.

STITCHING AND STITCHING EQUIPMENT

Acme Steel Co.
American Machine Works, Inc.
Diagraph-Bradley Industries, Inc.
Dave Fischbein Co.
Prime Co., Inc.

STRAPPING AND STRAPPING EQUIPMENT

Acme Steel Co.
Allegheny Steel Band Co.
Beacon Machinery, Inc.
Brainard Steel Div.
A. J. Gerrard & Co.
Gerrard Steel Strapping Div.,
Sackner Prod., Inc.
Signode Steel Strapping Co.

TABLES—conveying

Alden Equipment Co.
Barrett-Cravens Co.
Bodinson Mfg. Co.
Carter-Miller Co.
J. C. Corrigan Co., Inc.
General Nailing Machine Corp.
Hamilton Tool Co.
Island Equip. Corp.
Lamson Corp.
Link-Belt Co.
Mathews Conveyer Co., West Coast
Metzgar Conveyor Co.
M-H Standard Corp.
Paramount Mfg. Co.
Rack Engineering Co. of Calif, Inc

TABLES—elevating

Barrett-Cravens Co.
Beacon Machinery, Inc.
Colson Corp.
Cost Reduction Equip. Co.
Globe Pacific Hoist Co.
Hamilton Tool Co.
Lamson Corp.
Link-Belt Co.
Missile-Aircraft Ground Equip. Supply Co.

Paramount Mfg. Co.
Rack Engineering Co. of Calif., Inc
Raymond Corp.
Revolvator Co.
Rotary Lift Co.
West Bend Equipment Corp.

TABLES—portable

Auto Sheet Metal Works
Barrett-Cravens Co.
Cost Reduction Equip. Co.
Hamilton Tool Co.
Island Equip. Corp.
Lamson Corp.
Metzgar Conveyor Co.
Paramount Mfg. Co.
Pressteel Co.
Rack Engineering Co. of Calif., Inc. (hydraulic sheet feed)
Raymond Corp.
Revolvator Co.
Worley & Co.

TABLES—other

Barrett-Cravens Co. (die)
Borroughs Mfg. Co. (work benches)
Carrier Conveyor Corp. (vibrating)
Hamilton Tool Co.
Pressteel Co. (shipping room)
Rack Engineering Co. of Calif., Inc. (die)
Raymond Corp. (sheet feeding)
Speedways Conveyors, Inc. (ball transfer)

TAGS AND LABELS

W. H. Brady Co.
Eastman Tag & Label Co.
Multistamp Co.
Weber Marking Systems

TAPE—marking

Kendall Co.
Ludlow Papers, Inc.

TAPE—packaging

A. J. Gerrard & Co.
Kendall Co.
Ludlow Papers, Inc.

TIRES—industrial truck and trailer

American Pulley Co.
Brown Rubber Co.
Dico Co.
"HH" Mfg.
Hamilton Caster & Mfg. Co.
Holz Rubber Co.
Jackson Mfg. Co.
Laher Spring & Tire Corp.
Mitchell Industrial Tire Co., Inc.
Missile-Aircraft Ground Equip. Supply Co.
Monarch Rubber Co.
Nalpak Corp.
Roll Rite Corp.

TONGS

Cullen-Friestedt Co.
Downs Crane & Hoist Co.
Fab-Weld Corp.
L. B. Foster Co.
Heppenstall Co.

TRACTORS—diesel

Allis-Chalmers Mfg. Co.
J. I. Case Co.
Clark Equip. Co.
Eimco Corp.
Hensel Green & Co.
Frank G. Hough Co.
LeTourneau-Westinghouse Co.
Rocky Mountain Steel

TRACTORS—electric warehouse

American Pulley Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Clark Equip. Co.
Elwell-Parker Electric Co.
Kalamazoo Mfg. Co.
Lift Trucks, Inc.
Mercury Mfg. Co.
Moto-Truc Co.
Revolvator Co.
Rocky Mountain Steel
Vanguard Eng. Co.
Yale & Towne Mfg. Co.

TRACTORS—gasoline warehouse

Allis-Chalmers Mfg. Co.
Baker Industrial Trucks
Clark Equip. Co.
John Deere, Industrial Div.
"HH" Manufacturers
Hensel Green & Co.
Frank G. Hough Co.
Hyster Co.
Kalamazoo Mfg. Co.
Mercury Mfg. Co.
Prime-Mover Co.
Rocky Mountain Steel

TRACTORS—monorail

American MonoRail Co.
Cleveland Tramrail Div.
Detroit Hoist & Machine Co.
Rocky Mountain Steel

TRAILERS—factory and warehouse

American Pulley Co.
Brown Trailers, Inc.
Cost Reduction Equipment Co.
Electric Marketeer Mfg. Co.
Fab-Weld Corp.
Fairbanks Co.
Gar-Bro Mfg. Co.
Hartman Metal Fabricators, Inc.
"HH" Manufacturers
Jakes Foundry Co.
Lansing Co.
Mercury Mfg. Co.
Rocky Mountain Steel
Roll Rite Corp.
Sammons & Sons
Selma Trailer & Mfg. Co.
Wellington Machine Co.
West Bend Equipment Corp.

TRAILERS—motor truck and tractor

Brown Trailers, Inc.
F.A.B. Mfg. Co.
Gar-Bro Mfg. Co.
"HH" Manufacturers
Rocky Mountain Steel
Selma Trailer & Mfg. Co.

TROLLEYS

Alden Equip. Co.
American MonoRail Co.
Chester Hoist Div.,
Chisholm-Moore Hoist Div.,
Cleveland Tramrail Div., Cleveland
Coffing Hoist Div., Duff-Norton Co.
Conco Engineering Works
Crane Hoist Engineering Corp.
CraneVeyor Corp.
Cyclops Iron Works
Downs Crane & Hoist Co.
Forker Corp.
Gardner-Denver Co.
Harrington Co.
Link-Belt Co.
Mathews Conveyer Co., West Coast
Pacific Coast Ind. Equip. Corp.
Philadelphia Chain Block & Mfg. Co.
Richards-Wilcox Mfg. Co.
David Round & Son, Inc.
Schultz Materials Handling Corp.
Thern Machine Co.
Universal Cranehoist & Monorail Co.
Yale & Towne Mfg. Co.

TRUCKS—bag, barrel, drum

Allis-Chalmers Mfg. Co.
American Pulley Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Bond Foundry & Machine Co.
Brooks & Perkins, Inc.
Carter-Miller Co.
Colson Corp.
Dico Co.
Economy Engineering Co.
Elwell-Parker Electric Co.
The Fairbanks Co.
Grand Specialties Co.
"HH" Mfg.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Kalamazoo Mfg. Co.
Kwik-Mix Co.
Lansing Co.
Magline, Inc.
Magnesium Co. of America
McDermott & Greene
Stanley E. Morris Co.
Nutting Truck & Caster Co.
Rack Engineering Co of Calif., Inc.
Roll Rite Corp.
Wellington Machine Corp.
West Bend Equipment Corp.

TRUCKS—box type

American Pulley Co.
Auto Sheet Metal Works
Barrett-Cravens Co.
Blackman Plastics
Brooks & Perkins, Inc.
Carter-Miller Co.
Colson Corp.
Dico Co.
Fairbanks Co.
Federal Fibre Corp.
Hamilton Caster & Mfg. Co.
Ironbound Box & Lumber Co.
Jakes Foundry Co.
Kwik-Mix Co.
Lansing Co.
Magline, Inc.
Magnesium Co. of America
McDermott & Greene
National Vulcanized Fibre Co.
Nutting Truck & Caster Co.
Rack Engineering Co. of Calif., Inc.
Rol-Away Truck Mfg. Co., Inc.
Roll Rite Corp.
Spaulding Fibre Co., Inc.
Wellington Machine Co.
West Bend Equipment Corp.

TRUCKS—die handling

Allis-Chalmers Mfg. Co.
American Pulley Co.
Baker- Industrial Trucks
Barrett-Cravens Co.
Colson Corp.
Economy Engineering Co.
Elwell-Parker Electric Co.
Fab-Weld Corp.
G. W. Galloway Co.
Grand Specialties Co.
Hamilton Tool Co.
Jakes Foundry Co.
Lange Lift Co.
Stanley E. Morris Co.
Moto-Truc Co.
McDermott & Greene
Nutting Truck & Caster Co.
Pollard Bros. Mfg. Co.
Prime-Mover Co.
Ed Sullivan Equip. Eng. Services
Thern Machine Co.
Truck-Man Div.
Vanguard Eng. Co.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—dolly

American Pulley Co.
Auto Sheet Metal Works
Bond Foundry & Machine Co.
Brooks & Perkins, Inc.
Colson Corp.
Fab-Weld Corp.
The Fairbanks Co.
Gar-Bro Mfg. Co.
Hamilton Caster & Mfg. Co.
Hamilton Tool Co.
"HH" Manufacturers
Industrial Skid & Pallet Co.
Ironbound Box & Lumber Co.
Jakes Foundry Co.
Lansing Co.
Magline, Inc.
Magnesium Co. of America
Mathews Conveyer Co., West Coast
Mercury Mfg. Co.
McDermott & Greene
Nalpak Corp.
National Vulcanized Fibre Co.
Nutting Truck & Caster Co.
Rack Engineering Co. of Calif, Inc.
Rol-Away Truck Mfg. Co., Inc.
Roll Rite Corp.
Ed Sullivan Equip. Eng. Services
Wellington Machine Co.
West Bend Equipment Corp.

TRUCKS—elevating or lifting

American Pulley Co.
Arcadia Mfg. Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Clark Equip. Co.
Colson Corp.
Economy Engineering Co.
Elwell-Parker Electric Co.
Fairbanks Co.
Grand Specialties Co.
Hamilton Tool Co.

Hyster Co.
Kwik-Mix Co.
Lange Lift Co.
Lee Eng. Co.
Nutting Truck & Caster Co.
Revolvator Co.
Thern Machine Co.
Vanguard Eng. Co.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—factory and warehouse

Allis-Chalmers Mfg. Co.
American Pulley Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Bond Foundry & Machine Co.
Borroughs Mfg. Co.
Brooks & Perkins, Inc.
Elwell-Parker Electric Co.
Fairbanks Co.
Gar-Bro Mfg. Co.
Hamilton Caster & Mfg. Co.
Hartman Metal Fabricators, Inc.
"HH" Manufacturers
Ironbound Box & Lumber Co.
Jakes Foundry Co.
Kwik-Mix Co.
Lansing Co.
Magline, Inc.
McDermott & Greene
Stanley E. Morris Co.
Nalpak Corp.
Nutting Truck & Caster Co.
Pollard Bros. Mfg. Co.
Rol-Away Truck Mfg. Co., Inc.
Roll Rite Corp.
Thern Machine Co.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—fork, diesel

Allis-Chalmers Mfg. Co.
Baker Industrial Trucks
Clark Equipment Co.
"HH" Mfg.
Hyster Co.
Silent Hoist & Crane Co.
Truck-Man Div.
Yale & Towne Mfg. Co.

TRUCKS—fork, electric

American Pulley Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Clark Equipment Co.
Colby Steel & Mfg., Inc.
Elwell-Parker Electric Co.
Grand Specialties Co.
Lift Trucks, Inc.
Mercury Mfg. Co.
Moto-Truc Co.
Raymond Corp.
Revolvator Co.
Yale & Towne Mfg. Co.

TRUCKS—fork, gasoline

Allis-Chalmers Mfg. Co.
Automatic Transportation Co.
Baker Industrial Trucks
Champ Corp.
Clark Equipment Co.
"HH" Manufacturers
Hyster Co.
Kwik-Mix Co.
Lamson Mobilift Corp.
Prime-Mover Co.
Silent Hoist & Crane Co.
Truck-Man Div.
Yale & Towne Mfg. Co.

TRUCKS—hand

American Pulley Co.
Automatic Transportation Co.
Barrett-Cravens Co.
Bond Foundry & Machine Co.
Brooks & Perkins, Inc.
Brummeler Steel Prod. Corp.
Carter-Miller Co.
Colson Corp.
Colson Equipment & Supply Co.
Dico Co.
Equipto Div., Aurora Equipment Co.
Fab-Weld Corp.
Fairbanks Co.
Gar-Bro Mfg. Co.
Grand Specialties Co.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Lansing Co.
Lift Trucks, Inc.
Magline, Inc.
Magnesium Co. of America
McDermott & Greene
Stanley E. Morris Co.
Nalpak Corp.
Pollard Bros. Mfg. Co.
Rack Engineering Co. of Calif., Inc.
Rapids Standard Co.
Raymond Corp.
Revolvator Co.
Rol-Away Truck Mfg. Co., Inc.
Roll Rite Corp.
Thern Machine Co.
Toledo Metal Furniture Co.
Uhrden, Inc.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—hand, motorized

Automatic Transportation Co.
Barrett-Cravens Co.
Clark Equipment Co.
Gar-Bro Mfg. Co.
Grand Specialties Co.
Kwik-Mix Co.
Lift Trucks, Inc.
Moto-Truc Co.
Raymond Corp.
Revolvator Co.

TRUCKS—lift, hand-mechanical or jack-type

American Pulley Co.
Automatic Transportation Co.
Barrett-Cravens Co.
Colson Corp.
Fairbanks Co.
Grand Specialties Co.
Hamilton Tool Co.
Lansing Co.
Lift Trucks, Inc.
Stanley E. Morris Co.
Nutting Truck & Caster Co.
Rack Engineering Co. of Calif., Inc.
Revolvator Co.
Thern Machine Co.
Wellington Machine Co.
West Bend Equipment Co.
Yale & Towne Mfg. Co.

TRUCKS—lift, hydraulic

Allis-Chalmers Mfg. Co.
American Pulley Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
L. P. Degen Belting Co.
Elwell-Parker Electric Co.
G. W. Galloway Co.
Gerlinger Carrier Co.
Grand Specialties Co.
Hyster Co.
Ironbound Box & Lumber Co.
Kwik-Mix Co.
Lange Lift Co.
Lee Engineering Co.
Lift Trucks, Inc.
Rack Engineering Co. of Calif., Inc.
Raymond Corp.
Revolvator Co.
Thern Machine Co.
Truck-Man Div.
Vanguard Eng. Co.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.
Young Spring & Wire Corp., Ottawa Steel Div.

TRUCKS—lift, power driven

Allis-Chalmers Mfg. Co.
American Pulley Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Elwell-Parker Electric Co.
Gerlinger Carrier Co.
Grand Specialties Co.
Lift Trucks, Inc.
Moto-Truc Co.
Raymond Corp.
Revolvator Co.
Thern Machine Co.
Truck-Man Div.
Vanguard Eng. Co.
Uhrden, Inc.
Wellington Machine Co.
Yale & Towne Mfg. Co.

TRUCKS—packing house

American Pulley Co.
Auto Sheet Metal Works
Barrett-Cravens Co.
Elwell-Parker Electric Co.
Fairbanks Co.
Hamilton Caster & Mfg. Co.
Kwik-Mix Co.
McDermott & Greene
Moto-Truc Co.
Nutting Truck & Caster Co.
Rol-Away Truck Mfg. Co., Inc.
Wellington Machine Co.

TRUCKS—industrial (electric, gas-electric, gasoline)

American Pulley Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Clark Equipment Co.
Colby Steel & Mfg., Inc.
Electric Marketeer Mfg. Co.
Elwell-Parker Electric Co.
Hensel Green & Co.
Hyster Co.
Kalamazoo Mfg. Co.
Laher Spring & Tire Corp.
Lamson Mobilift Corp.
Lift Truck, Inc.
Moto-Truc Co.
Ready-Power Co.
Revolvator Co.
Silent Hoist & Crane Co.
Taylor Mfg. Co.
Truck-Man Div.
Vanguard Eng. Co.
Wayne Mfg. Co.
Wilshire Power Sweeper Co.
Yale & Towne Mfg. Co.

TRUCKS—lift, gasoline

Allis-Chalmers Mfg. Co.
Automatic Transportation Co.
Baker Industrial Trucks
Clark Equip. Co.
Elwell-Parker Electric Co.
"HH" Manufacturers
Kwik-Mix Co.
Lamson Mobilift Corp.
Silent Hoist & Crane Co.
Truck-Man Div.
Yale & Towne Mfg. Co.

TRUCKS—lift, hand

American Pulley Co.
Arcadia Mfg. Co.
Automatic Transportation Co.
Barrett-Cravens Co.
Colson Corp.
Grand Specialties Co.
Hamilton Caster & Mfg. Co.
Hamilton Tool Co.
Lange Lift Co.
Lee Engineering Co.
Lift Trucks, Inc.
Missile-Aircraft Ground Equip. Supply Co.
Stanley E. Morris Co.
Rack Engineering Co. of Calif., Inc.
Raymond Corp.
Revolvator Co.
Thern Machine Co.
Wellington Machine Co.
West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—lift, hand-electric

American Pulley Co.
Automatic Transportation Co.
Barrett-Cravens Co.
Clark Equip. Co.
Colson Corp.
Grand Specialties Co.
Hamilton Tool Co.
Lange Lift Co.
Lee Engineering Co.
Lift Trucks, Inc.
Missile-Aircraft Ground Equip. Supply Co.
Stanley E. Morris Co.
Moto-Truc Co.
Raymond Corp.
Revolvator Co.
Thern Machine Co.
Uhrden, Inc.
Yale & Towne Mfg. Co.

TRUCKS—pallet

Allis-Chalmers Mfg. Co.
American Pulley Co.
Automatic Transportation Co.
Baker Industrial Trucks
Barrett-Cravens Co.
Brooks & Perkins, Inc.
Clark Equip. Co.
Colson Corp.

Grand Specialties Co.
"HH" Mfg.
Hamilton Tool Co.
Jakes Foundry Co.
Lift Trucks, Inc.
Magnesium Co. of America
Missile-Aircraft Ground Equip. Supply Co.
Stanley E. Morris Co.
Moto-Truc Co.
Nutting Truck & Caster Co.
Rack Engineering Co. of Calif., Inc.
Raymond Corp.
Roll Rite Corp.
Thern Machine Co.
Truck-Man Div.
Wellington Machine Co.
West Bend Equip. Corp.
Yale & Towne Mfg. Co.

TRUCKS—paper roll

Allis-Chalmers Mfg. Co.
American Pulley Co.
Automatic Transportation Co.
Auto Sheet Metal Works
Barrett-Cravens Co.
Bond Foundry & Machine Co.
Clark Equip. Co.
Economy Engineering Co.
Elwell-Parker Electric Co.
Fairbanks Co.
Grand Specialties Co.
Hamilton Caster & Mfg. Co.
Hyster Co.
Ironbound Box & Lumber Co.
Jakes Foundry Co.
McDermott & Greene
Moto-Truc Co.
Nutting Truck & Caster Co.
Rol-Way Truck Mfg. Co., Inc.
Vanguard Eng. Co.
Wellington Machine Co.
Yale & Towne Mfg. Co.

TRUCKS—sheet handling

American Pulley Co.
Automatic Transportation Co.
Auto Sheet Metal Works
Baker-Industrial Trucks
Barrett-Cravens Co.
Clark Equip. Co.
Elwell-Parker Electric Co.
Fairbanks Co.
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Hamilton Tool Co.
Jakes Foundry Co.
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Rol-Away Truck Mfg. Co., Inc.
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West Bend Equipment Corp.
Yale & Towne Mfg. Co.

TRUCKS—skid handling

American Pulley Co.
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Auto Sheet Metal Works
Baker Industrial Trucks
Barrett-Cravens Co.
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TRUCKS—straddle

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Clark Equipment Co.
Gerlinger Carrier Co.
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Hyster Co.
Lee Engineering Co.
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TRUCKS—tiering, electric

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West Bend Equip. Corp.
Yale & Towne Mfg. Co.

TRUCKS—other

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Brooks & Perkins, Inc. (platform)
Elwell-Parker Electric Co.
Kwik-Mix Co. (platform hopper)
Maxi Corp. (3- and 4-axle trucks for heavy cranes and excavators)
Geo. M. Prescott Co. (dragline)
Rol-Away Truck Mfg. Co., Inc.
(maintenance, safety high ladder, tank)
Yale & Towne Mfg. Co.
(lift, LP Gas)

VIBRATORS

Alden Equipment Co.
Carrier Conveyor Corp.
Eagle Iron Works
General Nailing Machine Corp.
Stephens-Adamson Mfg. Co.
Vac-U-Lift Co.

WHEELBARROWS—industrial

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Gar-Bro Mfg. Co.
Lansing Co.
Prime Mover Co. (powered)

WHEELS—conveyor

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Carter-Miller Co.
Colson Corp.
Colson Equipment & Supply Co.
Conveyor Co.
CraneVeyor Corp.
Harry J. Ferguson Co.
Food Machinery & Chemical Corp.
Gar-Bro Mfg. Co.
General Nailing Machine Corp.
Gleason Corp.
"HH" Mfg.
Link-Belt Co.
Mathews Conveyer Co., West Coast
Metzgar Conveyor Co.
Rack Engineering Co. of Calif., Inc.
Union Chain & Mfg. Co.
Washington Belting & Rubber Co.

WHEELS—general industrial

Aerol Co.
Albion Industries
American Pulley Co.
Bassick Co.
Bond Foundry & Machine Co.
Bronco Products Co.
Brown Rubber Co.
Colson Corp.
Colson Equipment & Supply Co.
CraneVeyor Corp.
Dico Co.
Divine Brothers Co.
Fairbanks Co.
Faultless Caster Corp.
Gar-Bro Mfg. Co.
Gleason Corp.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Lansing Co.
Missile-Aircraft Ground Equip. Supply Co.
Nalpak Corp.
R & K Industrial Products Co.
Roll Rite Corp.
Thistle Roller & Mfg. Co.
Wellington Machine Co.

WHEELS—hand truck

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Bond Foundry & Machine Co.
Bronco Products Co.
Brown Rubber Co.
Colson Corp.
Colson Equipment & Supply Co.
Dico Co.
Divine Brothers Co.
Fairbanks Co.
Faultless Caster Corp.
Food Machinery & Chemical Corp.
Gar-Bro Mfg. Co.
Gleason Corp.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Lansing Co.
McDermott & Greene
Nalpak Corp.
Nutting Truck & Caster Co.
R & K Industrial Products Co.
Roll Rite Corp.
Wellington Machine Co.

WHEELS—rubber tired

Albion Industries
American Pulley Co.
Bassick Co.
Bond Foundry & Machine Co.
Bronco Products Co.
Brown Rubber Co.
Colson Corp.
Colson Equipment & Supply Co.
Darnell Corp.
Divine Brothers Co.
Fairbanks Co.
Faultless Caster Corp.
Food Machinery & Chemical Corp.
Gar-Bro Mfg. Co.
Gleason Corp.
Hamilton Caster & Mfg. Co.
Jakes Foundry Co.
Lansing Co.
McDermott & Greene
Nalpak Corp.
Nutting Truck & Caster Co.
R & K Industrial Products Co.
Rack Engineering Co. of Calif., Inc.
Roll Rite Corp.
Wellington Machine Co.

WHEELS—tractor

Brown Rubber Co.
Gar-Bro Mfg. Co.
"HH" Mfg.

WHEELS—trailer

Bronco Products Co.
Brown Rubber Co.
Colson Equipment & Supply Co.
Dico Co.
Divine Brothers Co.
Faultless Caster Corp.
Fruehauf Trailer Co.
Gar-Bro Mfg. Co.
"HH" Mfg.
Hamilton Caster & Mfg. Co.
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Tramrail engineering and application data

This 12-page manual gets right down to the A-B-C's of how this tramrail system can go to work for you—and save you time and money. The manual not only tells you what the system can do for you . . . but how it does it. There's an application for every need. Clear-cut photos and text show you the way through this book. ***Cleveland Tramrail Division, The Cleveland Crane & Engineering Co.***

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How to utilize your "air rights"

"Utilize the air rights of your ceilings" demands this 20-page booklet . . . then goes on to show you how you can save time and money by using overhead chain conveyors. The manual points out how these conveyors increase capacity and efficiency of floor space, and lower costs in manufacturing operations, traveling stockroom procedure, stockrooms and warehouses, and packaging and shipping departments. ***Lamson Corporation.***

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Take the man out of man handling

In 12 pages you learn enough about all types of power conveyors so you can take the man out of material handling. The booklet defines (with words and pictures) these types of conveyors: floor-to-floor, chain, slat, apron, assembly table, portable belt, live roller, pusher bar, horizontal belt, press parts. ***Sage Equipment Co.***

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Data sheets on conveyor for you

These series of data sheets cover just about any type conveyor you'd want, and make up an ideal reference source. Included are colorfully-illustrated and well organized sheets on: truck-to-bin conveyor; parts conveyors; bulk materials conveyors; light loaders; moto-belt conveyors; all purpose belt conveyor. ***New London Engineering Co.***

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New conveyor solves old problems

In this 32-page book, you'll find out how the chainless conveyor can solve old problems in your plant. The first section is devoted to case history presentations of how this conveyor has solved these problems. Then the book bares the working parts of the conveyor with engineering drawings, specifications, and other pertinent data. ***Landahl Conveyor Co.***

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This "Junior" is a big boy

Yes, this "Junior" monoveyor must be some fellow, because it takes some 30 pages to get him off the ground. And as you keep looking through this manual—with its smart diagrams, photos, line drawings, etc.—you gain new respect for "Junior". For his many parts described in the book add up to an admirable whole. So if you need an overhead monorail conveyor for light or medium loads, check "Junior" for size. ***Mechanical Handling Systems, Inc.***

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Consult Christian

For a really thorough account of the essentials of belt conveyors have a look at J. D. Christian's 25-page bulletin. There are pages and pages of information on idlers, drives, pulleys, collars, take-ups, etc., plus charts on material weights, belt capacities, and plenty of pictures. ***J. D. Christian Engineers.***

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30 best manuals on hand trucks

How to select the right hand lift

Selecting the right hand lift truck is largely a matter of studying factors entering into your plant's handling operations. This eight-page brochure reminds you of these factors, helps you study your load and then recommends the truck you need. Operating conditions and their importance are thoroughly discussed. ***Yale & Towne Mfg. Co.***

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Pallet dollies for every operation

In this illustrated brochure you should find a pallet dolly suitable for any truck, railroad car or factory operation. There are standard dollies, tilt-steer pallet dollies and universal reefer dollies in many models and sizes, accompanied by specifications. ***Roll-Rite Corp.***

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Three on trailers, carts and platforms

These three four-page leaflets will fill you in on uses for platform trucks, manual and dragline carts and trailers. Each elaborates on the features of one of the trucks, picturing it and giving full specifications. ***SI Handling Systems, a div. of Safety Industries, Inc.***

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34 pages of special purpose trucks

You'll find here more than 70 hand trucks for special purposes, many pictured and all described. So if you need a truck for plate glass, sheet metal, pipes, small parts, clothing or to use in stock rooms, warehouses, maintenance work, factories or stores, send for this 34-page book and make your choice. ***Rol-Away Truck Mfg. Co., Inc.***

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Hydroelectrics with dyna dual power unit

Opening with a list of the advantages of the dyna dual power unit, this 20-page booklet demonstrates its use in pallet, platform, tractor, straddle and other trucks. All units are pictured and some are accompanied by dimension drawings. Includes specs. ***Lift Trucks, Inc.***

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Introducing the hydraulic multi-stroke

A four-pager introduces the hydraulic multi-stroke hand truck, noting all its features in small photos and showing the truck in action in larger ones. Dimensions are given in diagram form as well as listed, while a chart indicates the many models available. ***Barrett-Cravens Co.***

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Comprehensive package on powered hand trucks

You can become a truckologist in no time at all with this 12-part package on powered hand trucks. A tab-indexed 16-pager handles the basics in quick-readable form with many pictures, directing attention to the powerhead, control circuit and brakes, hydraulic system, frame, maintenance and special attachments. Cutaway included. From there 11 identical four-page folders take over, each handling a truck of a different weight from 1,500 to 10,000-lb. capacities. ***Clark Equipment Co.***

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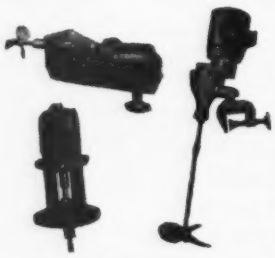

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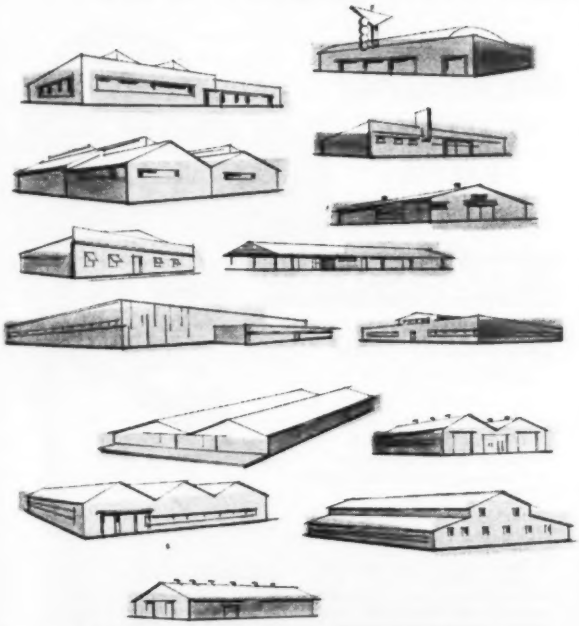

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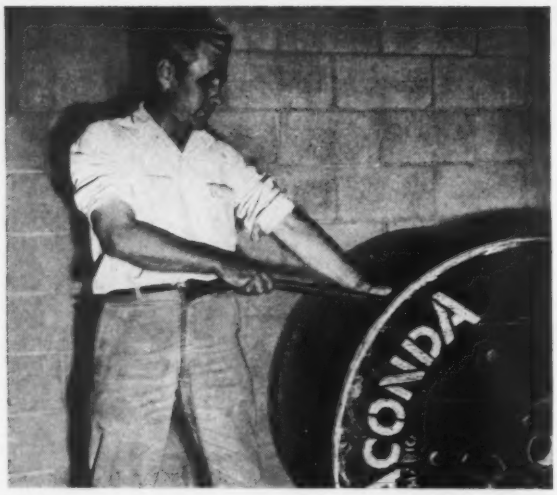

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How to select your lift truck

This brochure, used in a material handling course at Rutgers University, will provide you, as well as students, with the basic knowledge necessary for selecting a lift truck, skids and pallets for your load. It pictures eight basic types with the more popular sizes and capacities. ***Revolvator Co.***

. . . for your copy, circle No. 252

200 models from 7 magnesium trucks

You can choose over 200 different models from these seven basic magnesium hand trucks, pinpointed in a brief folder. And if none of these meets your requirements, you can custom-design your own truck by selecting the component parts from a chart on the final page. An accompanying leaflet treats you to facts on the magnesium platform truck too. ***Magline, Inc.*** **. . . for your copy, circle No. 253**

Your choice from 60 hand trucks

Constructed entirely of magnesium, these two-wheel hand trucks are light enough to be carried by one man, yet strong enough to support heavy loads. So says this four-pager showing a good selection of the 60 trucks available and indicating a multitude of uses for them. Specifications. ***Magnesium Co. of America.*** **. . . for your copy, circle No. 254**

Picture book on hand truck units

Over 30 two-color photos of steel frame two-wheel and platform hand trucks comprise this six-page leaflet with a bonus of application data and construction features. Here also are basic specifications for the five platforms and 15 types of two-wheelers. ***Fairbanks Co.***

. . . for your copy, circle No. 255

"Hand Trucks—Facts and Factors"

This fact-packed brochure on platform, tin plate and pallet hand trucks is an invaluable how-to book for installing a hand truck system. It tells you how to study your load to select the right truck, giving a typical example to guide you. Then it makes truck size recommendations for different operating conditions and explains how an automatic pallet system works. 12 pages with specifications. ***Automatic Transportation Co.*** **. . . for your copy, circle No. 256**

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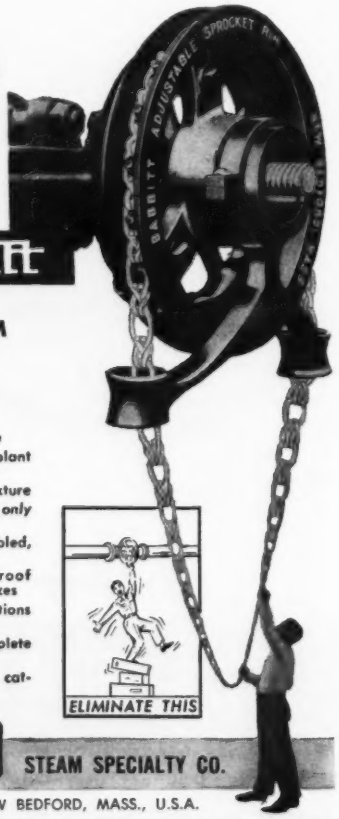

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Pusharound all-purpose hand trucks

A gentle push will start these magnesium hand trucks rolling—no matter what their load. Choose from eight basic models reviewed in this four-pager with a note on the custom models you can build with the listed optional equipment. ***Brooks & Perkins, Inc.*** **. . . for your copy, circle No. 257**

No truck with trouble with electric pallet

You can kiss your handling problems good-bye with the new electric pallet truck, says a 16-page book on the 4,000-lb. capacity unit. It pinpoints design features, construction details, and uses many illustrations to prove its point. A separate sheet is included. ***Towmotor Corp.***

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Latest lift data—and no April Foolin'

Just off the press (April 1, in fact) is a booklet on the complete line of Presto hydraulic lifts with the most up-to-date information. In addition to detailing regular lifts, the book introduces three new units: a portable dumper, a hinged lift, and a portable lift for overhead mounting of air conditioners, heaters, etc. ***Lee Engineering Co.***

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Your choice from 92 truck models

The dozen pages of this junior catalog illustrate 52 two-wheel trucks, 12 dollies, 4 wagon trucks and 24 platform and shelf trucks, as well as providing you with a combined trailer-tow line order picking system. Application of balance style trucks to trailer-train operation is also outlined. Specifications. ***Nutting Truck & Caster Co.***

. . . for your copy, circle No. 260

Equipment for high and mighty operations

Stackers, hoisters, working-height lifters and portable cranes—that's what you'll find in this booklet. Two full pages summarize construction features with photos and handy lists, while the balance of the book exhibits various units with pertinent data close by. ***Lewis-Shepard Products, Inc.***

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Handbook of manual MH equipment

This 48-page illustrated handbook features generous sections on two-wheel hand trucks and industrial platform trucks and trailers. Hand truck selection data are presented in check-list form, then elaborated in text. You'll also find out how hand trucks are made (and why) and see drawings of many different types. Platform trucks and trailers receive similar treatment in another section. ***Nutting Truck & Tractor Co.*** **. . . for your copy, circle No. 262**

Photo album of two and four-wheelers

Large clear pictures point out what's available in the way of two and four wheel trucks for standard or special application in this 20-page brochure. Of particular value is the bearing feature of these trucks, noted and illustrated throughout the book. Indexed. ***West Bend Equipment Corp.***

. . . for your copy, circle No. 263

Picture potpourri of MH trucks

Platform trucks, trailers, hand trucks and conveyor trucks—they're all pictured here in their many models and sizes. Applications for many of them are suggested and all pertinent information given. A section on special designs reviews 20 custom trucks which the firm has built for specific requirements of different users. ***Jakes Foundry Co.***

. . . for your copy, circle No. 264

File folder of lift truck leaflets

This folder makes a handy kit for your information on lift trucks. It already holds leaflets on an electric lift truck with dyna-dual power unit, a ride-or-walk tractor unit, high and low-lift platform truck, telescopic cantilever fork, multi-stroke hydromatic lift, and a single-stroke truck. And there's room for more. Most leaflets are four-pagers with pics and specs. ***Lift Trucks, Inc.*** **. . . for your copy, circle No. 265**

Trucks with a boarding house reach

These electric rider-type tiering trucks will handle just about anything you have that has to be stacked, putting it high, low or where you choose. And they open up like a book for speedy servicing, as you'll see in this 24-page book with both product and application pictures of many models. Specifications included for all. ***Raymond Corp.***

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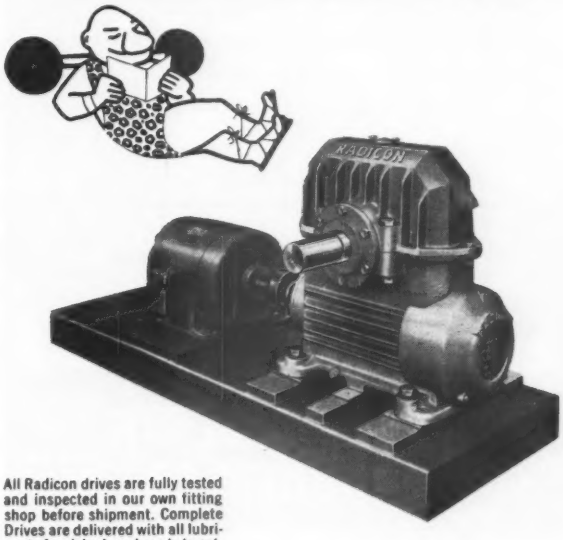

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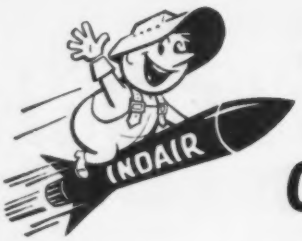

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We will set up a machine in our shop to produce your part for your inspection *at no charge or obligation.*

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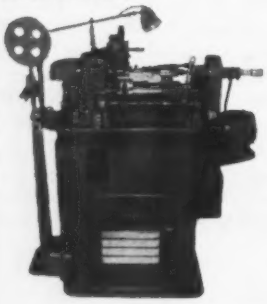


1. The TRAUB is delivered to you ready to produce your part.
2. A factory trained technician will accompany the machine to your plant and instruct the operator.
3. If desired, our technicians will set up your second and third jobs in your plant with no **labor charge to you.**
4. There is **no charge** for any future layouts or production estimates.

A-15	A-25	A-42
5/8" Collet Cap.	1" Collet Cap.	1 5/8" Collet Cap.
$2595	$2730	$4660

40-60 machines always in stock.
$200,000 stock of parts, cams, collets, etc.

ALEXANDER MACHINERY CO., INC.
2026 So. Grand Ave., Los Angeles 21, Calif., RI 7-7421
ALEXANDER MACHINERY CO., INC. OF SAN FRANCISCO
6 South Bayshore Freeway, San Mateo, Diamond 6-2100

. . . for more details, circle No. 81 on Reader Service Postcard

Special trucks for special jobs

If you move rectangular items—file cabinets, refrigerators, butane tanks, for instance—or square merchandise—TV's, washing machines, office equipment, electronic equipment—consider these two special trucks designed for just these purposes. Each is pictured in action so you can see how it works. Specifications. ***Roll-Rite Corp.***

. . . for your copy, circle No. 267

Standard and special-purpose Floormasters

This 20-page booklet gives you 10 reasons why Floormasters belong in your plant. Eight standard rack types are available and they're pictured here accompanied by specifications. Book concludes with special-purpose models and an idea of what they can do. ***Lewis-Shepard Products, Inc.***

. . . for your copy, circle No. 268

Story of the pallet hand lift

The pallet system of handling has been widely adopted in industry. Here is a series of trucks designed for the system and ideal for short hauls, departmental handling or for moving pallet loads in close quarters. Many photographs show the truck in operation and will give you ideas for new uses. Features are illustrated with a cutaway. ***Yale & Towne Mfg. Co.*** **. . . for your copy, circle No. 269**

Brief on steel stock carts

A brief section of the Equipto reference manual details two styles of steel stock carts in two sizes, suggesting eight specific uses for them and indicating more. The two-tray and the multi-shelf are both illustrated. ***Equipto Div., Aurora Equipment Co.*** **. . . for your copy, circle No. 270**

15 best manuals on wheels and casters

191 pages on wheels for progress

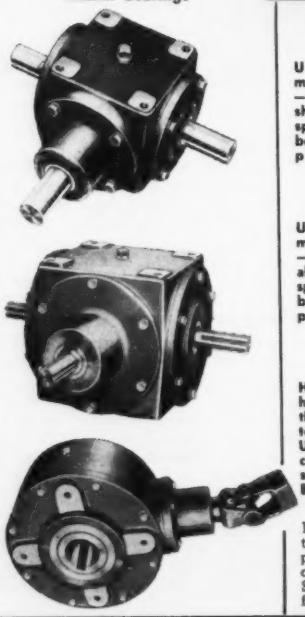
This caster and wheel manual takes you for a ride past practically every kind of caster, wheel, glide, desk shoe or accessory in existence. An index guides you to light, medium and heavy-duty industrial casters and special wheels for special uses. Specifications and dimension drawings are your guideposts along the way. Well illustrated. ***Darnell Corp.*** **. . . for your copy, circle No. 271**

HUB CITY

COMBINING QUALITY AND VERSATILITY

Stressproof Shafts
Timken Bearings

UNIVERSAL ANGLE GEAR BOXES



MODEL 66
STANDARD DUTY
Universal for rotation and mounting. Available gear ratios — 1:1, 1½:1, 2:1. Available shaft sizes, 1¼" round or splined or smaller, Timken bearings and ground Stressproof shafts.

MODEL 88
HEAVY DUTY
Universal for rotation and mounting. Available gear ratios —1:1, 1½:1, 2:1, 3:1. Available shaft sizes, 1⅜" round or splined or smaller. Timken bearings and ground Stressproof shafts.

MODEL 99
EXTRA HEAVY DUTY
Helical ring gear type for extra heavy duty service. Choice of three ratios—40 to 6 tooth, 37 to 9 tooth, 34 to 7 tooth. Universal Joint supplied with choice of yokes in round, square or splined. Timken Bearings.

For complete information on these and other HUB CITY products ask your distributor, or contact Grether & Grether, Stockton, California or factory.

HUB CITY IRON CO. ABERDEEN, SO. DAKOTA

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Color-coded classification of casters

In these 40 pages you'll find pictures, specifications and suggested applications for light, medium and heavy casters, rubber bumpers, glides and foot pads. A unique index makes the book quick and easy to use. There's also a section that will help you select the best caster for your needs. ***Colson Corp.*** **. . . for your copy, circle No. 272**

Casters by the hundreds

Take a spin through this 56-page book with its hundreds of types and sizes of swivel and rigid casters from forged, plate, cast, and pressed steel and semi-steel. You'll find every caster, with capacities ranging up to 8,000 lb., pictured and described. The book also provides selection data for rubber tires. Specifications included. ***Hamilton Caster & Mfg. Co.*** **. . . for your copy, circle No. 273**

66-page assortment of casters, wheels

Round and round you go and where you stop should be with this 66-page book and its complete selection of truck casters and wheels. Would you like a rigid truck caster? Or a double ball race swivel truck caster? Or a solid rubber or plastic wheel? Here they are with a multitude more, all pictured and with specifications. ***Bond Foundry & Machine Co.*** **. . . for your copy, circle No. 274**

Spotlight on cart-type wheels

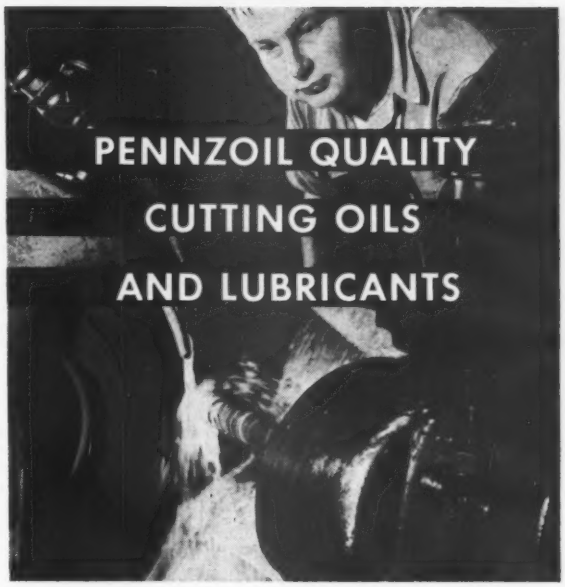
You'll turn cart wheels with these drop center and lug base discs, the former for separate tube-type pneumatic tires, the latter for single tube or cushion tires.

They're spotlighted in a six-page brochure with photos and specs along with demountable wheels with or without hub dome. ***Gar-Bro Wheel Co.*** **. . . for your copy, circle No. 275**

Introducing nylon reinforced wheels

Fairbanks has introduced an all-plastic wheel, the Lamilon Series 700, in this colorful 12-page booklet, displaying its advantages, special features and specifications. Also in the book are facts on regular and heavy-duty casters and rubber wheels. ***Fairbanks Co.*** **. . . for your copy, circle No. 276**

Western Factory Sales Representative
GRETHER & GRETHER, P. O. Box 47, Stockton, California
. . . for more details, circle No. 83 on Reader Service Postcard



High VI. Pennbell, Hydraulic Oil by The Pennzoil Company, non-corrosive, refined to eliminate unstable elements. Holds down machine wear. Supreme in Quality. Pennbell and Maxol—the finest for the machine tool industry. The Pennzoil Company, 942 So. Hope, Los Angeles, Branches and Distributors in principal Western State Cities.

SUPREME QUALITY
PENNZOIL
LUBRICANTS

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5 convenient locations *to serve your needs for* **Power Transmission, Ball & Roller Bearings**

serving the Southwest since 1919

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SPECIALISTS IN BEARINGS AND POWER TRANSMISSION EQUIPMENT
GENERAL OFFICES: 1940 So. Figueroa St., Los Angeles 7, Calif.
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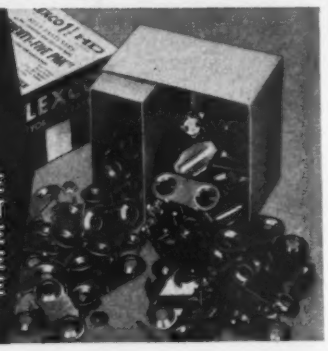
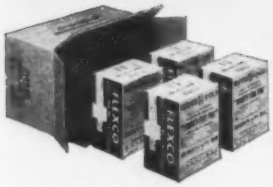
NEW FOR YOUR CONVENIENCE...

FLEXCO "25-PAK"

TWENTY-FIVE COMPLETE SETS OF FLEXCO HD BELT FASTENERS NOW AVAILABLE IN ONE EASY-TO-HANDLE ECONOMY BULK PACKAGE





Standard shipping carton contains four "25-PAK" boxes of one size fastener. Keep a supply of "25-PAKS" on hand . . . easy to store and inventory. Sturdy boxes and shipping cartons have many uses!

There's no need now to carry several 10-set boxes to the job—every "25-PAK" box contains 25 complete sets of FLEXCO fasteners (bottom plates, top plates, clips, nuts and bolts) . . . enough FLEXCO fasteners to join common belt widths (for example: one "25-PAK", size 1½E, will join a 36" belt).

Our savings from bulk-packaging are passed on to you. Label on each "25-PAK" box has chart indicating the number of FLEXCO HD fasteners to use for given belt widths.

Ask your FLEXCO distributor or write to us for additional information.

Flexible STEEL LACING COMPANY
4642 LEXINGTON ST. • CHICAGO 44, ILL.

FOR THE SPLICE OF A LIFETIME!

. . . for more details, circle No. 86 on Reader Service Postcard
See listing in Directory Section

All-inclusive wheel and caster package

All the facts in one package is what you'll get with this 24-page book and three accompanying folders. The book pictures a dozen different series of casters of varying types for varying uses, as well as special casters, and wheels of semi-steel, drop-forged steel, rubber and plastic.

The folders demonstrate sealed casters and demountable tire wheels. *Albion Industries, Inc.*

. . . for your copy, circle No. 277

Story behind the self-energizing wheel

Here is the story of the self-energizing rubber tired wheel, how it works, what it has done in the past, and what it may be able to do for you. A four-page folder includes a cutaway of the wheel with special features indicated. A second four-pager specifies the casters to be used with the self-energizers, while a third treats molded-on rubber tires. Specifications included. *Roll-Rite Corp.* **. . . for your copy, circle No. 278**

Accent on Loadmaster wheels

The Loadmaster, an aluminum wheel for systems with heavy loads in continuous operation, is presented in this eight-page leaflet with most information in chart form for quick reference. The book also digests facts about standard aluminum, balloon cushion, and steel wheels. All accompanied by specifications. *R & K Industrial Products Co., Inc.*

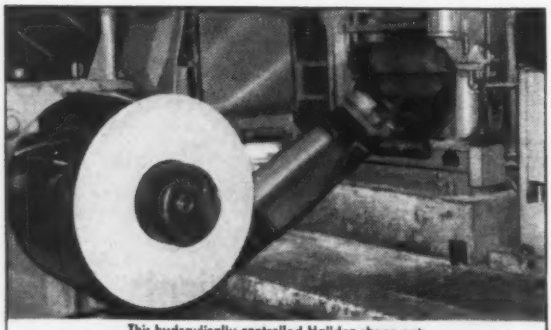
. . . for your copy, circle No. 279

Wheels with tires that won't roll off

"All rubber is bonded to the metal by an exclusive process that prevents molded-on tires from rolling off the wheel," states this four-page leaflet on aluminum alloy industrial wheels with rubber tires. It doesn't reveal any secrets but it does show the wheels and bearings, pinpointing their design features. Specifications included.
Bronco Products Co., Inc. **. . . for your copy, circle No. 280**

Free wheeling demountables for truck, trailer

A four-pager in question and answer style informs on demountable wheels with cast semi-steel rims and hubs and rubber tires. A step-by-step picture series discloses techniques for replacing the tires in minutes. A single sheet on



This hydraulically controlled Holiden shear gets long service from Aeroquip 1509 Hose Lines

Kaiser Steel Mill Uses Aeroquip Hose Lines

Fontana, California Strip Mill Has Flexible Hose Lines On All Hydraulic Systems

Flexible hose lines withstand shock and vibration, giving longer service life on equipment subject to these strains. At Kaiser Steel Corporation's Fontana, California strip mill, Aeroquip Flexible Hose Lines are used on all hydraulic systems. A minimum inventory of Aeroquip Bulk Hose and Reusable Fittings meets Kaiser's wide range of size and pressure requirements.

Simplify your fluid line maintenance the Aeroquip way. Use Aeroquip Hose and Reusable Fittings to make all replacement lines as you need them, right in your plant. Call the Aeroquip Distributor listed in your Yellow Page Phone Book for details on this time and money-saving idea.

Aeroquip

AEROQUIP CORPORATION, WESTERN DIVISION, BURBANK, CALIFORNIA
SALES OFFICE AND WAREHOUSE FOR OREGON, WASHINGTON AND IDAHO:
SPARKS AEROQUIP NORTHWEST, INC., 1624 S. E. GRAND AVE., PORTLAND 15, OREGON
AEROQUIP PRODUCTS ARE FULLY PROTECTED BY PATENTS IN U.S.A. AND ABROAD

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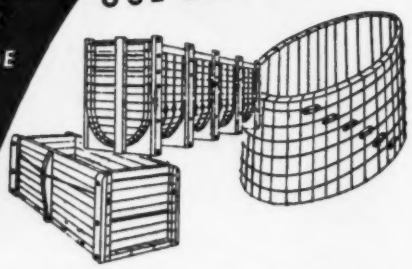
How To Attain ECONOMICAL LIQUID STORAGE

USE WINDELER



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SAN FRANCISCO 24, CALIFORNIA

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semi and full pneumatic tired casters directs attention to their uses and advantages. Both with specs.
Nutting Truck & Caster Co. **. . . for your copy, circle No. 281**

How to select a wheel and caster

If you want "how to" information on wheels and casters, this 32-pager is for you. It explains simply how to select a caster, how to install it and how to select the right wheel. A double-page chart indicates the caster (by model number) for the job (bins, boxes, dollies, racks, stands, trucks) in the industry (aircraft, automotive, building, canning, chemicals, electronics foundries to mention just a few of the 30 given). The remaining pages detail specific light and medium-duty casters and different types of wheels.
Rapids-Standard Co., Inc. **. . . for your copy, circle No. 282**

Wheel this one down the alley

If you're going in circles looking for a caster for light-duty industrial equipment, consider this one with its semi-pneumatic, grease sealed thread guard wheel. Features of the caster, originally designed for grocery carts in supermarket aisles, are summarized in a single-page spec sheet with four units in the series picture. *Faultless Caster Corp.*
. . . for your copy, circle No. 283

Introduction to heavy-duty star wheel

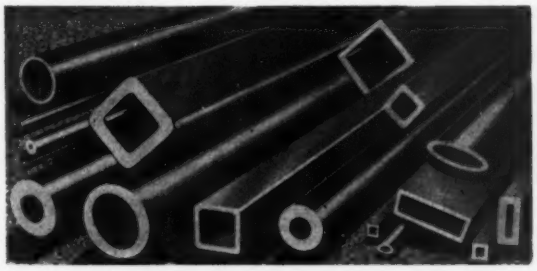
Two little cogs in a big wheel account for the longer life and improved rollability of these 10, 8 and 6-in. demountables. A six-page folder explains them—star construction and V-back design—also illustrating step by step how to change tires and what happens to the wheels under full load. A separate sheet on mileage test results with this new wheel pictorially compares it with other wheels that failed.
Rapids-Standard Co., Inc. **. . . for your copy, circle No. 284**

On wheels, casters and synthetic treads

No need to tread lightly with Aerothane, a synthetic material used for wheel treads and introduced in a four-pager listing its advantages. Accompanying it is a 28-page booklet on the wheels and casters that Aerothane treads—medium, heavy and extra heavy-duty casters, shock absorbing casters, wheels and special units. Many illustrations and complete specifications. *Aerol Co., Inc.* **. . . for your copy, circle No. 285**

TUBING

ROUNDS • SQUARES • RECTANGULARS



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Carbon & Alloy • Seamless & Welded
"SHELBY" Seamless Steel Tubing
"ELECTRUNITE" Welded Steel Tubing
also Steel Bars • Hot & Cold Finish
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Seamless Carbon Tubing
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PROMPT DELIVERY FROM LOCAL STOCKS
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The Key To Fast, Safe Mechanized Material Handling At Freight Docks

■ To improve service and reduce handling costs, F. W. Woolworth uses 12 fully-adjustable ROWE hydraulic docks. Raised or lowered to the level of the truck bed, the Adjust-A-Dock cuts costs by speeding the handling of 100 truck loads of merchandise in an eight-hour shift.

The Rowe Adjust-A-Dock is a rugged, self-contained unit built for long trouble-free service and minimum maintenance.

More than 80 standard Rowe models are available to meet your specific requirements.

Write for our new free catalog.

ROWE METHODS, Inc.
2534-J Detroit Ave., Cleveland 3, Ohio

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See listing in Directory Section

Industrial Tire Users

HOLZ
Solids & Vulcons
Can Save You Real Money!

A better tire—quality controlled from compound milling through finish—in our own factory. Not a retread, but 100% NEW RUBBER. Quick service, using your rims or exchange. A proven product with a firm guarantee.

Call or write

HOLZ RUBBER COMPANY, Inc.
Phone ENdicott 9-4771 — LODI, CALIFORNIA

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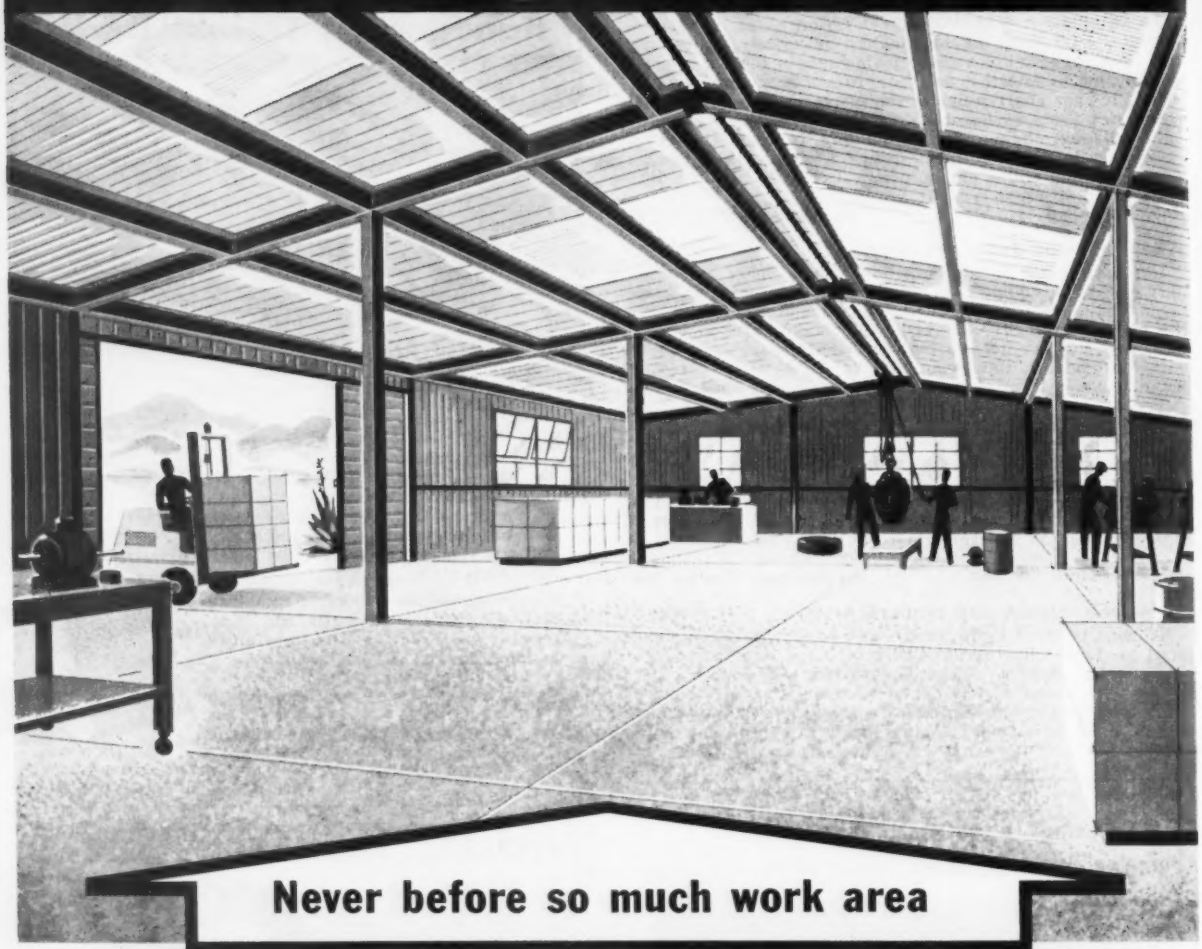
Stran-Master Buildings Smash the Price Barrier



Never before so much work area

for so little as $42.25 per mo.

$675 down buys a Stran-Master now!*

Get a spacious 36′ x 64′ steel building now. Never before have such low cost and long financing been combined as with Stran-Steel's new Stran-Master steel building. Buy now, take 5 years to pay ...you'll see costs lower than rent! Let our free counseling service work out all the details for any size building you need.

**Plus Delivery and Erection.*

Contact your nearby Stran Steel building specialist for details and literature.

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Steel Sales & Supply Company
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CHICO, CALIF.
Modern Building Company
2300 Fair St., FI. 2-7591

LANCASTER, CALIF.
Bergman & Turner
43847 N. Division, WH. 2-9551

LOS ANGELES-SAN DIEGO
Federal Steel Corp.
1550 Canal Ave., Long Beach
Phones: HE. 7-0451 • NE. 6-1753

SACRAMENTO, CALIF.
Modern Building Company
Phone: GIlbert 2-2917

SAN FRANCISCO-OAKLAND
Camping Corporation
290 Hegenberger Rd., Oakland
Phone: NEptune 6-1010

SAN JOSE, CALIF.
O. E. Anderson
1075 N. Tenth, CY. 3-8844

STOCKTON, CALIF.
Central Valley Steel Bldgs., Inc.
1113 W. Fremont, HO. 4-5597

PENDLETON, ORE.
Irons Lumber Co.
1907 S. W. Court Pl., Phone 4060

SALT LAKE CITY, UTAH
Titan Steel Corp.
1363 Major St., IN. 7-5451

PHOENIX, ARIZONA
Young Steel Buildings, Inc.
642 N. 17th Ave., AL. 8-6701

TWIN FALLS, IDAHO
Reynolds & Walker
1155 Highland Ave., RE. 3-5181

SEATTLE, WASH.
Craigen-Rank & Company
710 Harrison St., MA. 4-7134

SPOKANE, WASH.
Sceva Steel Buildings
610 Columbia Bldg., RI. 7-3138

PENDLETON, OREGON: Irons Lumber Co., 1907 S. W. Court Pl., Ph: 4060

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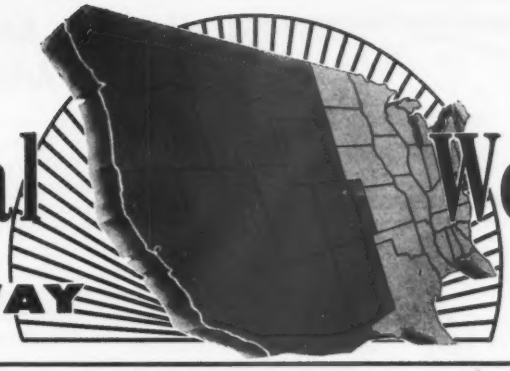
The Industrial West



ON ITS WAY

plants • production • distribution • personnel

GE to Build Permanent Computer Plant in Arizona

PHOENIX—Next month will see the start of construction on a permanent plant for the General Electric Computer Department in Deer Valley Park near here, according to an announcement by *H. R. Oldfield,* general manager, who said the building will bring the permanent investment of that department in the Phoenix area to $4- or $5,000,000.

Located on a 160-acre tract on Black Canyon highway near Thunderbird Road, the new facility will be a 104,000-sq. ft., two-story concrete structure, fully air-conditioned and with provisions for a complete cafeteria.

Occupancy is scheduled for January, 1959, with 500 employees relocating during the first two months of the year. Later 130 manufacturing people will move there from a leased plant on Peoria Avenue. Personnel who man the Arizona State Computer Center at Tempe will not be transferred, Oldfield said.

Rockwell's Western Plant Goes Into Production

PORTERVILLE, CALIF.—First major industrial facility in this predominantly agricultural community is now in first stages of production.

It is Rockwell Manufacturing Company's 106,000-sq. ft. facility for production and repair of gas meters and other Rockwell products for the Western market.

The modern one-story plant, which is designed to harmonize with the ranch-style architecture predominant in the community, is completely air-conditioned and uses a gas-absorption center.

Employment at the facility is expected to increase gradually over the next year or two, as the plant approaches full production, according to *William M. Connor,* assistant to the vice-president and acting general manager.

Sutorbilt Opens Office

COMPTON, CALIF.—Sutorbilt Corp., has announced the opening of its new office at 2966 E. Victoria St. A subsidiary of Fuller Co., Catsauqua, Penna., Sutorbilt produces rotary positive blowers, air conveyors, fans, aircraft specialties and other items.

Champion Paper Co. Reveals Plans for $30,000,000 California Mill

FAIRFIELD, CALIF.—Proposed plans for construction of a $30,000,000 pulp and paper plant on a 1,500-acre site near here, have been revealed by Champion Paper and Fibre Co. of Hamilton, Ohio. Champion, together with one or more partners, plans to form a subsidiary firm—the Shasta Pulp and Paper Co.—to erect the mill.

Pending favorable outcome of extensive surveys as to marketing, manufacturing and shipping costs, pollution control, etc., construction would begin in 1960, with production underway in 1963.

Announcement of Champion's plans was made recently by *Herbert T. Randall,* vice president of research and engineering, presently acting as president of the new company. He told a meeting of Solano county civic, industry and political leaders that the proposed plant would have a 300-ton-a-day capacity, an annual payroll of nearly $4,000,000, and would employ about 600 persons.

He also said that Stanford Research Institute is making a market survey of kinds of paper that might be expected to be made if the mill were erected, that a group of Champion economists will analyze production costs, and engineers of the firm will work with the Pollution Control Board so that air or water pollution problems can be solved.

Portland Announces 450-acre Park for Industrial Use

PORTLAND—The Port of Portland has announced that a parcel of nearly 300 acres of land formerly owned by Multnomah County has been transferred to the Port, to form the nucleus of an unusual new industrial district well within the city limits.

Part of Mocks Bottom, an area along the waterfront and fringing the downtown business district, the property is being combined with acreage previously Port-owned in Mocks Bottom and on adjacent Swan Island to form a 450-acre park for light industry, warehousing and distribution.

The first 40-acre section on Swan Island, formerly the city's airport, is now available for development.

Coast Line Plastics Formed

LOS ANGELES—Coast Line Plastics is a recently-organized firm at 5761 W. 98th St., across from International Airport. Products of the company are electronic insulation tubing, continuous and short pieces, etc.

Flexible Tubing Completes Move to New Facility

ANAHEIM, CALIF.—Flexible Tubing Corp., has announced completion of its move to a new 16,300-sq. ft. plant at 305 Crescent Way, a step that will signal the firm's entry into full-scale manufacturing of a number of its major products here, according to *Walter C. Burns,* manager of Western operations.

The new plant and its equipment will represent an investment of $400,000, and current requirements call for about 70 employees.

Machinery developed by the research and engineering laboratories at Flexible's plant in Guilford, Conn., specifically for automated processing of its numerous flexible ductings, will be installed in the new facility. Products to be manufactured include Flexflyte, Thermaflex and Flex-Vent ductings as well as various types of silicone and neophrene ductings in special shapes required by the aircraft and other industries.

Yale & Towne Sets Up San Diego Factory Branch

SAN DIEGO—Establishment of a factory branch here for the sale and service of industrial lift trucks has been announced by Yale & Towne Manufacturing Co. Set up to cover San Diego and Imperial counties, it is located at 6055 Fairmount Extension.

The new facility, which operates under the Yale branch in Los Angeles, is headed by *James B. Cunningham,* formerly Los Angeles service manager.

The branch will maintain complete parts inventories, fully-equipped service facilities and mobile service units for maintenance and repair work.

CLEVELAND BIN VIBRATORS MOVE MATERIALS

It takes valuable man hours to loosen up clogged bins with a sledge hammer. Even if your bins clog up only once a day, the wasted man hours will pay for a Cleveland Bin Vibrator in less than a year's time.

Cleveland Vibrators will keep your bins open without damage. They're low in initial cost, and maintenance is virtually nil. Installation is rapid and simple. Complete engineering help for selection and installation is furnished without extra cost.

AIR

ELECTRIC

Both air and electrically operated Cleveland Vibrators are available for immediate delivery from our San Francisco warehouse. Write today for complete details, including prices.

Dept. M4
2914 Clinton Avenue. • Cleveland 13, Ohio
7 Front Street • San Francisco 11, California

. . . for more details, circle No. 93

Thompson Aircraft Begins New Bay Area Plant

SAN FRANCISCO—Construction began this month by Thompson Aircraft Corp. on its $900,000 tire retreading plant in Airport Boulevard Industrial Park in South San Francisco. Completion of the 55,000-sq. ft. building is set for September, when all factory and administrative operations of the firm will be moved from its present site at 18th and Minnesota in San Francisco.

After its relocation, Thompson is expected to employ about 100 persons in its 24 hour-a-day operation. The corporation, founded in 1903, is reportedly the world's largest retreader of aircraft tires. Since World War II it has opened plants in Miami and in New York. Annual sales have approximated $2,000,000.

With its expansion, Thompson will add a new consumer division to the South San Francisco plant. President of the organization is *Walter Schlichtmann*, who purchased the firm in 1932. *Vernon W. Sanders* is executive vice president, *Edward Georgia*, vice president of engineering, and *Kenneth Thomas*, vice president of sales.

Sloan Co. Manufactures Indicating Light Products

BURBANK, CALIF. — A specialized manufacturing organization for manufacture of subminiature indicating lights is the newly-formed Sloan Co. of 4101 Burbank Blvd.

According to *C. S. Sloan*, president, the firm manufactures lights for computer, data recording and control instruments, ground and airborne panel instruments and petroleum applications under the trade name, Color-Lite. Several other lines of products for the electronics and avionics industries will also be manufactured.

First of several representatives the firm is appointing to handle sales and application of Color-Lite products is Weightman and Associates of Burbank. They will represent Sloan in California, Arizona and Nevada.

YALE

PADLOCKS

IN STOCK AT

HOWARD SUPPLY CO COMPANY

. . . for more details, circle No. 94

Bay Area Industrialists Attend Vallecitos Seminar

SAN FRANCISCO—A look at the economic potential of atomics in Northern California was given some 250 industrial executives of the area at a recent management seminar sponsored by Pacific Gas and Electric Co. and General Electric Co.

The day-long conference at Castlewood Country club featured a tour of the nearby Vallecitos Atomic Laboratory and Power Plant where the industrialists inspected the "hot" laboratory, developmental reactors and the plant which began delivering power to the Bay Area last October.

Personnel from PG&E, GE and the Atomic Energy Commission discussed various significant aspects of atomic development as related to industry in the West.

Halton Tractor to Handle Ford Diesel Line in Oregon

PORTLAND — Addition of the Ford diesel line has been announced by Halton Tractor Co., 2349 N.W. 20th Avenue. The firm will serve as dealers in the Portland and Astoria areas, according to *E. H. Halton*, president and general manager.

Complete parts and service facilities will be available for the line, which consists of two models, the 200-cu. in. X. with 60 hp. rating at 2250 rpm., and the 330-cu. in. Y model, which rates 96 hp. at 2250 rpm.

Handling sales for the line in Portland will be *E. G. Whitehead*, and in Astoria, *Ray J. Wilkey*. Halton Tractors is the Caterpillar dealer for northwest Oregon and southwest Washington, with stores in Portland, Astoria, Salem and Longview.

Central Screw Co. Occupies New Los Angeles Quarters

LOS ANGELES—Moving this month into a new 20,000-sq. ft. facility at 2901 S. Tanager Ave., will be the Central Screw company, manufacturer of screws, nuts and bolts. Land and building represent a $200,000 investment.

Large stocks of manufactured products will be maintained at the location, company officials said.

Central Screw Co. has headquarters in Chicago. Its West Coast manager is *Virginia E. Green*, Los Angeles.

Santa Clara Firm Named To Handle Freeland Line

SANTA CLARA, CALIF.—The Jake Franzen Co. has been named representative in Northern California and western counties of Nevada for products of Freeland Gauge Co., Detroit, Mich. The Santa Clara firm will offer Freeland's complete line of air gages, air gage conditioning services, gage engineering, and special air gage requirements.

Exhibits Lining Up For Packaging, M-H Exposition in August

SAN FRANCISCO—The major part of the exhibit space at the Seventh Annual Packaging and Materials Handling Exposition, to be held in San Francisco's Civic Auditorium, August 11-13, has been sold out, according to a report this month by Clapp & Poliak, Inc., producers of the show.

With more than 150 new plants and production expansions each month in the industrial West, interest is focused on this mammoth show, where top Western management, invariably preferring to shop at home, will attend numerous problem-solving clinics and see a parade of the nation's latest packaging and handling equipment, some of which will be seen for the first time in the West at the Exposition.

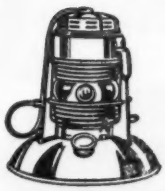
Although there is current "close money" talk nationally, the West, the fastest growing industrial area in the world, is planning still more expansions as well as new facilities, and the Exposition provides an opportunity to see modern developments in both packaging and handling to incorporate into future manufacturing operations.

In discussing the "recession" situation, the producers stated that, if anything, it has nourished Western management's interest in the Exposition, mainly because better packaging methods seen at such shows lead to many savings as well as increased sales, while material handling improvements tend to speed production and help to cut costs.

Apex Begins Box Plant

GARDENA, CALIF.—Apex Paper Box Co. has begun construction on a new plant at 14335 S. Denker Ave., for increased production of plain and fancy set-up paper boxes. Apex plans to move about July 1 from its present facility at 6120 S. Van Ness Ave., Los Angeles.

DIETZ



TRAFFIC GARD LANTERNS

IN STOCK AT

HOWARD SUPPLY COMPANY

. . . for more details, circle No. 95

How to relocate an executive...

without dislocating his home life

The transfer of an executive to another city or state almost always creates a degree of emotional upset for both the man and his family. From a management point of view, this experience is reflected in a temporary loss of working efficiency, and sizeable cost. **Bekins** skilled moving specialists are trained to reduce emotional upset and cost factors by handling each phase of the move quickly and efficiently—and with unusual care and consideration. Transferred families get settled *fast*, and feel "at home" right away. **Bekins** service increases the executive's efficiency, saves man-hours, and cuts costs for hotels, meals, etc. Equally important, **Bekins** long distance moving rates are as *low* as those of other responsible movers. If you are in charge of the transfer of personnel, it will pay you to check with the **Bekins** office or agent in your area.

BEKINS
Since 1891
VAN & STORAGE CO.

OFFICES OR AGENTS IN PRINCIPAL CITIES

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SAVE ENGINEERING TIME!

USE OUR LABORATORY TO SOLVE YOUR PROBLEMS IN

sealing • gasketing • lubricating
filtering • insulating • sound-proofing
vibration • polishing • percussion

The finest engineering and research facilities in the Felt industry at your *command . . . no* rent, *no* salaries, *no* overhead, *no* cost to you!

Their experience? Capabilities?

Over 21 years of continuous research leadership in helping every type of business to use the right Felt for the job. Out of this know-how in materials have come more major developments than from any other source in the industry: innumerable advances in Wool Felts; the Windsor System of bridging traditional textiles with thermoplastically bonded, man-made fibres; Feutron, the first 100% synthetic Felts.

Put this high calibre team to work on your problem today . . . gain new savings in materials without *any* investment in engineering time. Write, on company letterhead, outlining your problem . . . or request specific technical data about any of the Felt uses mentioned above.

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West Coast Representative: A. B. Boyd Company
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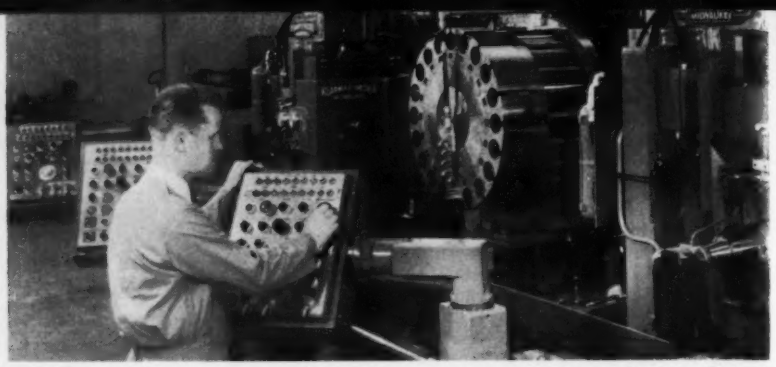
. . . for more details, circle No. 97



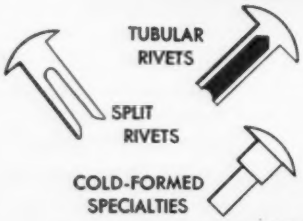
MILLING, MILLING AND boring machines (left to right) are operated by Digitape electronic controls. Engineer checks control panels.

HERE ARE tapes used in the fabulous system to produce these parts.

ALL machine parts shown here can be produced simultaneously.

COST-CUTTING PRODUCTION TEAM

MILFORD RIVETS and RIVETERS



Full or Semi-automatic
Bench or Floor Models
Single or Multiple Spindle

FIVE MANUFACTURING PLANTS GIVE UNMATCHED SERVICE

THE MILFORD RIVET & MACHINE CO.

PACIFIC DIVISION: 12937 E. Imperial Highway, Norwalk, California; Phone: RAymond 3-7430
Other Plants In: Milford, Connecticut • Hatboro, Pennsylvania • Aurora, Illinois • Elyria, Ohio

. . . for more details, circle No. 98 on Reader Service Postcard

West Claims First Electronically-Controlled Machine Tool Line

LOS ANGELES—Detroit-type techniques for small lot production . . . know-how stored on tape—an integrated machine line on the 'building block' principle . . . tremendous inventory reduction . . . quick changes even during a production run . . . less down time . . . less scrap and re work. . . .

These are just a few of the many and exciting aspects brought to the West's—and the nation's . . . first all electronically-controlled line of machine tools recently revealed at Hughes Aircraft Co. Machines for the prototype equipment operated from punched tapes and controlled by transistorized digital computers, were designed and produced by Kearney & Trecker Corporation of Milwaukee, Wis., with the first production system to be delivered later this year.

The Digitape electronic controls have been linked with a milling machine, a drilling machine and a boring machine, making available for the first time the economics of Detroit-type mass production techniques in the area of small-lot production, which now constitutes most of the machining done by American industry.

The ability of the numerically-controlled line to shorten time between engineering release and parts production, plus the ability to make changes without sacrifice of production rates, will be especially important in 'crash' development programs in missiles, aircraft, etc.

This is the first time the 'building block' principle has been successfully applied to electrically automated machine tools, according to *Francis J. Trecker*, president of the design-production firm. He also stated that the tape-controlled fully automatic transfer machine can take the place of 15 machines and 15 men.

The machines will be sold by Kearney and Trecker, prime sales contractors for the machines and controls; Hughes will supply the technical know-how to set up the digital computers.

PRECISION

GRINDING WHEELS

IN STOCK AT

HOWARD SUPPLY COMPANY

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MORE AIR AT LESS COST

with the two-stage, air-cooled up to 50 H.P.

CURTIS AIR COMPRESSOR

● **Greater Efficiency**

The highly efficient C-100 air compressor delivers more air per minute, per horsepower and per kilowatt hour of electrical energy consumed, resulting in lower electric bills.

● **Low Cost Installation**

Since it is *air-cooled*, you are not faced with expensive plumbing installation costs. Water bills are eliminated entirely. Peak efficiency, together with low cost installation and minimum maintenance—all adds up to your best buy in air compressors today.

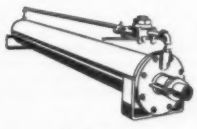
Remember, you can count on C-39

Curtis

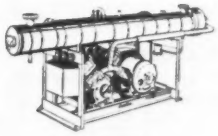
OUR 104th YEAR

MANUFACTURING COMPANY • PNEUMATIC DIVISION

1954 Kienlen Avenue, St. Louis 20, Mo.

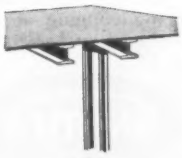


Air Cylinders



Packaged Liquid Chiller

Air Hoists



Lifting Platforms

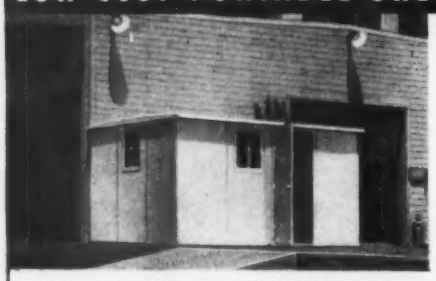
L. L. MEIKLE—West Coast Representative
L. L. Meikle, 2844 S. Grand Ave., Los Angeles 7, Calif.
R. K. McCoy, 3033 San Pablo Ave., Berkeley 2, Calif.
Ed Craven, 1018 Southeast Eighth Ave., Portland 14, Oregon

. . . *for more details, circle No. 100 on Reader Service Postcard*

Sylvania-Corning Opens Western Sales Office

SAN FRANCISCO—Opening of a Western sales office at 1811 Adrian Road, Burlingame, has been announced by Sylvania-Corning Nuclear Corp., a major fuel element producer with headquarters and plants in New York. The new office, headed by *James O. Vadeboncoeur*, was established to improve and speed the services that SYLCOR furnishes in the development and production of fuel elements and other components for nuclear reactors.

LOW-COST PORTABLE SHELTER FOR INDUSTRY



A LOW-COST UTILITY BUILDING

... IN A HURRY!

An all-purpose building. Ideal for temporary offices during expansion; or for emergency storage of tools, supplies, etc.

FULL PRICE $218
(9' x 6'—1 door and 1 window)
f.o.b. Oakland, California

RENT for only $17.50
per month plus
delivery charge

Light, waterproof panels, quickly bolted together.
Can be easily enlarged or dismantled and moved.
Stores neatly in a small space for future reuse.

SIZES: 9' or 12' widths to any length (in 3' modules)
(9x6, 9x9, 9x12, 9x15, 9x18, etc.—to any length)
(12x12, 12x15, 12x18, 12x24, etc.—to any length)

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6767 BROADWAY TERRACE
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PORTA HOUSE

LOW-COST PORTABLE SHELTER FOR INDUSTRY

... for more details, circle No. 101 on Reader Service Postcard

A. C. Horn Occupies New San Francisco Quarters

SAN FRANCISCO—It was moving day, April 1 for the A. C. Horn Co. when its Western division was transferred to new quarters at 550 Third St.

A sales volume that is ten times that of 1945 necessitated the move, according to *Stanford R. Horn*, Pacific Coast manager of the firm which manufactures and distributes materials for maintenance and construction.

The two-story, block-deep structure will house three times the company's former office space at 252 Townsend St. Manufacturing and warehousing facilities include three truck bays and railroad siding.

A subsidiary of Sun Chemical Corporation, Horn manufactures and markets over 100 products. The Western division serves the 11 Western states and Hawaii through 45 salesmen and from offices and warehouses here and in Los Angeles, Portland, Seattle and Denver.

E. C. Buehrer Named Rep For Whiting Trackmobiles

OAKLAND, CALIF.—Appointment of E. C. Buehrer Associates, Inc., 253 Fourth St., as a distributor for Whiting Trackmobiles was announced recently.

Buehrer will handle the Whiting line for Northern California, offering complete parts and service facilities, plus facilities for analyzing railway car handling methods in relation to overall plant efficiency. Whiting Corp. headquarters are in Harvey, Ill., and the West Coast branch is at Norwalk, Calif.

Federal-Mogul Starts Building El Monte Plant

EL MONTE, CALIF.—Under construction by Federal-Mogul-Bower Bearing, Inc., is a $500,000 plant scheduled for completion in May. The 23,000-sq. ft. facility is located at 1201 Arden Drive. General manager of the operation is *Ralph duBois*. Federal-Mogul, a Detroit firm, manufactures miniature and instrumental precision ball bearings.

Wow—What a BUY!!

Never before at this LOW price!

Smith's new "Big 98" for $98

All-purpose welding cutting outfit

DOES MULTIPLE JOBS—welds, cuts, heats, brazes, solders . . . *offers an exceptional value unmatched in the welding industry today.* Cuts to 1"; welds to ¾". Additional tips increase cutting range to 4"; welding capacity to ¾"—also adapt torch to scarfing, gouging, etc. Assures clean, high-speed cuts with minimum gas consumption.

Here's what you get—torch body, 3 welding tips, cutting assembly, cutting tip, oxygen and acetylene regulators, goggles, lighter, and hose—all for only $98.00 (U.S.A.).

MANY FEATURES include . . . Slip-In Tips that tighten with fingertip pressure only . . . no wrench needed. Exclusive "Flo-Trol" diaphragm stops causes of backfires; eliminates seat burn-out; reduces downtime. Brand new bright-nickel finish.

SMITH'S
SMITH WELDING EQUIPMENT CORPORATION

Go great—go "Big 98" in '58

2525 FOURTH STREET, S. E., MINNEAPOLIS 14, MINNESOTA

... for more details, circle No. 102 on Reader Service Postcard

SIMPLEX BALL BEARING SCREW JACKS

IN STOCK AT

HOWARD SUPPLY COMPANY

... for more details, circle No. 103

Alcoa Establishes Sales Office In Boise

BOISE, IDA.—Establishment of a resident sales office in the offices of Pacific Metals Co., 325 Grove St., here has been announced by Aluminum Co. of America. *Robert W. Roylance* of Alcoa's Portland sales office has been named resident representative. Increasing use of aluminum in the Boise area, along with the trend toward greater industrialization in the region, prompted the creation of the new office, said *H. A. Faisst*, Seattle district sales manager.

Adhesive Engineering Acquired by Hiller

PALO ALTO, CALIF.—Purchase of Adhesive Engineering Co., San Carlos, Calif., by Hiller Helicopters was disclosed recently by *Stanley Hiller, Jr.*, president. The San Carlos firm, a large producer of a structural high temperature adhesive for bonding metal skin of aircraft and missiles, will become an autonomous division of Hiller Helicopters.

Its president, *Dr. D. W. Elam*, will continue in that post and *J. L. Morrill*, vice president, remain in charge of adhesive sales. About 40 persons are employed at the 7,000-sq. ft. facility at 1411 Industrial Rd.

Adhesive Engineering, which had sales of some $1,900,000 last year, also produces a light weight foamed-in-place reinforcement and filler material, a metal powder composition used in metal sheet structures and a concrete adhesive for potential use in industry.

The acquisition is a step in Hiller's diversification program that is planned to strengthen the company's position in the aircraft industry.

W. J. Villareal Co. Handles Gas-heating, Venting Lines

REDWOOD CITY, CALIF.—Headquartered at 2525 El Camino Real is the W. J. Villarreal Co., recently formed by Walter Villarreal to represent manufacturers of gas-heating and gas-venting equipment.

The firm will be a representative for Peerless Manufacturing Co., maker of gas heaters, and Dura-Vent Corp., manufacturers of gas-venting systems.

The new organization will confine its activities to California, Nevada and Hawaii, said Mr. Villarreal, formerly a district manager for William Wallace Co.

Lafferty Opens Offices for Modern Caster Sales

LYNWOOD, CALIF.—J. W. Lafferty Co., distributor of material handling equipment, announces the opening of two new sales offices for Modern Caster. One will be located at 5321 Geary Blvd., San Francisco, and managed by *Ned Kellogg*. The other will be at 1152 Catalina Ave., San Diego, and managed by *Ned Crawford*.

Berg Evans Adds Sier Bath Flexible Couplings Line

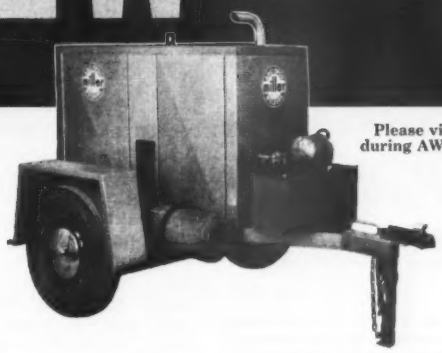
PORTLAND—Berg Evans Chain Co., power transmission specialists firm, has recently added the complete line of gear-tooth flexible couplings of Sier-Bath Gear & Pump Co., Inc., North Bergen, N. J., to their representation of products in the power transmission field, according to *Howard Hochhalter*, sales manager of Berg Evans.

Aircomatic Process Shown at Open House

PORTLAND—Air Reduction Pacific Co. held a week-long open house recently at which new welding equipment was demonstrated to representatives of metal fabricating firms in this area. The equipment emphasized in the demonstration is described as a manual gun for the application of the company's inert gas arc welding or Aircomatic process.

The basic Aircomatic process pioneered and developed by Air Reduction was introduced to industry about 10 years ago as a new method for welding aluminum and since then the area of application has been widened to handle all metals.

NEW DESIGN POWER PERFORMANCE



Please visit booth #507 during AWS welding show

BIG . . . TOUGH . . . RELIABLE

. . . and offered in three models for every "beyond the power line" job:

The ROUSTABOUT D-250 DC for metallic arc welding
The BIG RIG DA-300 AC/DC for metallic arc welding
The FIREBALL DAH-350 AC/DC for metallic arc and tungsten inert gas welding

All models have a 10 kw single phase 115/230 volt ac power plant and deliver, while welding, 1 kw of 115 volt dc auxiliary power. Proven Miller ac generator is driven by Hercules engine. Coupled with the revolutionary new Miller semimetallic rectifier, this produces the industry's finest performing dc welding current . . . bar none!

Complete particulars will be sent promptly. Please indicate model in which you're interested.

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distributed in Canada by CANADIAN LIQUID AIR CO., LTD., Montreal • APPLETON, WISCONSIN
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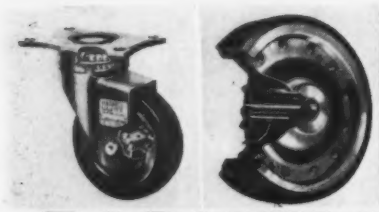
BUILT TO LAST LONGER.

Built for the ruggedest and the toughest jobs—



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CASTERS AND WHEELS

Always SWIVEL and ROLL

Check **THESE ADVANTAGES:**

RUBBER TREADS . . . a wide choice of treads suited to all types of floors, including Darnelleprene oil, water and chemical-resistant treads, make Darnell Casters and Wheels highly adapted to rough usage.

RUST-PROOFED . . . by zinc plating, Darnell Casters give longer, care-free life wherever water, steam and corroding chemicals are freely used.

LUBRICATION . . . all swivel and wheel bearings are factory packed with a high quality grease that "stands up" under attack by heat and water. Zerk fittings are provided for quick grease-gun lubrication.

STRING GUARDS . . . Even though string and ravellings may wind around the hub, these string guards insure easy rolling at all times.

Send for Your Copy NOW

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DOWNEY (LOS ANGELES COUNTY) CALIFORNIA
60 WALKER STREET, NEW YORK 13, NEW YORK
36 NORTH CLINTON STREET, CHICAGO 6, ILLINOIS

. . . for more details, circle No. 105
See listing in Directory Section

Nortronics Creates Two Operating Elements

HAWTHORNE, CALIF.—Nortronics Division of Northrop Aircraft, Inc., has announced formation of two major operating elements—the Electronics Systems and Equipment facility here and the Systems Support facility (formerly Northrop-Anaheim) at Anaheim, Calif.

Development and production facilities assigned to the Electronics unit include the 200,000-sq. ft. Northrop Plant Two, the company's optical laboratory at Pasadena and a manufacturing facility in the El Segundo area. *Frederick Stevens* heads the organization, which has a staff of more than 600 scientists and engineers plus other personnel numbering about 2,000.

The Systems Support organization is housed at the Northrup industrial complex which includes 363,000-sq. ft. of manufacturing and development area. The 1,700-man staff is headed by *Thomas H. Quayle.*

The recent creation of Nortronics as a line division and subsequent establishment of the operating elements conforms to Northrup's policy of placing related products and operations under a central management for more efficient operation.

Osgood Co. Appoints Dealers for 'Flomatcher'

PORTLAND—The George M. Osgood Co., national sales representatives for the FLOmatcher pump discharge control system, has recently appointed representatives in various cities throughout the country.

Manufactured by the General Services Co., Corvallis, Ore., the pumping system for use in sewage and waste disposal pumping plants is entirely new on the market, but has been used and tested in 25 Western plants during the last six years without a breakdown. It uses a wound rotor motor, and has water rheostat combination that matches discharge pumping rate precisely with inflow rate.

Western representatives are Engineer Sales & Service, Inc., Los Angeles; H. G. Goble Co., Denver, and Waterworks Equipment Co. of Salt Lake City, Pocatello and Boise, Ida.

Telemetering Corp. Acquired by Pacific Mercury Television

LOS ANGELES—Announcement that Pacific Mercury Television Manufacturing Corp. has acquired Telemetering Corp. of America, Los Angeles, was made recently by *Joseph Benaron*, Pacific Mercury president.

Telemetering Corp. designs and makes prototype equipment for transmission, reception and recording of data from guided missiles and aircraft in flight. It will function as a wholly-owned subsidiary of Pacific Mercury.

Keenan Pipe Buys Ladish Fittings Inventory

LOS ANGELES—Keenan Pipe & Supply Co. has announced its recent purchase of the stainless steel welding fittings inventory of Ladish Pacific Division of Ladish Co.

This will provide the Keenan firm with the West's largest, most complete and balanced inventory of these fittings, consisting of Type 304, 316 and 347, some available in low carbon grades.

Keenan also stocks pipe, valves and other stainless accessories and is able to provide immediate delivery of complete stock covering requirements of an entire stainless piping and valving project.

ACCO's Great Chain . . .

ACCO for Better Values

ACCOLOY X-WELD 125
PATENT NO. 2763768

NOW—a chain with welds as strong or stronger than the material—welds with projecting lugs that prevent kinking! **Accoloy X-weld 125 Chains** hang straight as a die. Each link is perfectly formed.

THE SECRET IS IN THE WELD!

ACCOLOY X-WELD 125 has 2¼ times as big a welded area as possible with other welding processes. This means *more than double the security at the weld.*

ACCOLOY X-WELD 125 CHAINS are ideal for slings, bundling, towing, boomer, utility chains. Can be furnished in special analyses and heat treatments. Available in ¼", ⅜", ½", ⅝" and ¾" sizes.

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LOS ANGELES OFFICE • 2216 South Garfield Avenue
PORTLAND OFFICE • 2210 N. W. Roosevelt Street
SAN FRANCISCO OFFICE • 890 Tennessee Street

ACCO
American Chain Division
AMERICAN CHAIN & CABLE

York, Pa., Atlanta, Boston, Chicago, Detroit, Houston, New York, Philadelphia, Pittsburgh, Bridgeport, Conn.

. . . for more details, circle No. 106 on Reader Service Postcard
See listing in Directory Section

United Concrete Pipe Directs Rockwin Facility

BALDWIN PARK, CALIF.—Announcement that United Concrete Pipe Corp., has assumed operational direction of Rockwin Prestressed Concrete Corp., was made recently by *Lloyd Earl*, president of both firms. The plant at 13440 E. Imperial Highway, Norwalk, Calif., will continue, under the Rockwin name, in production of precast prestressed concrete structural and building members.

Aided by United Concrete Pipe's broad engineering experience in concrete and steel, the Rockwin operation will concentrate on high quality products at competitive prices, company officials said.

The Rockwin firm was established three years ago by *Winthrop Rockefeller*, chairman of its board. United Concrete Pipe is a subsidiary of U. S. Pipe & Foundry Co.

$700,000 Coleman Plant In Torrance Completed

TORRANCE, CALIF.—Recently completed by the Coleman Engineering Co., Inc., was a $700,000 engineering and production plant on the Del Amo Estate industrial tract.

Designed to handle Coleman's contracts for specialized research and development on military test facilities, industrial and military instrumentation and electronics, the facility is composed of a 30,000-sq. ft. administration building and lab, plus a 20,000-sq. ft. structure for production.

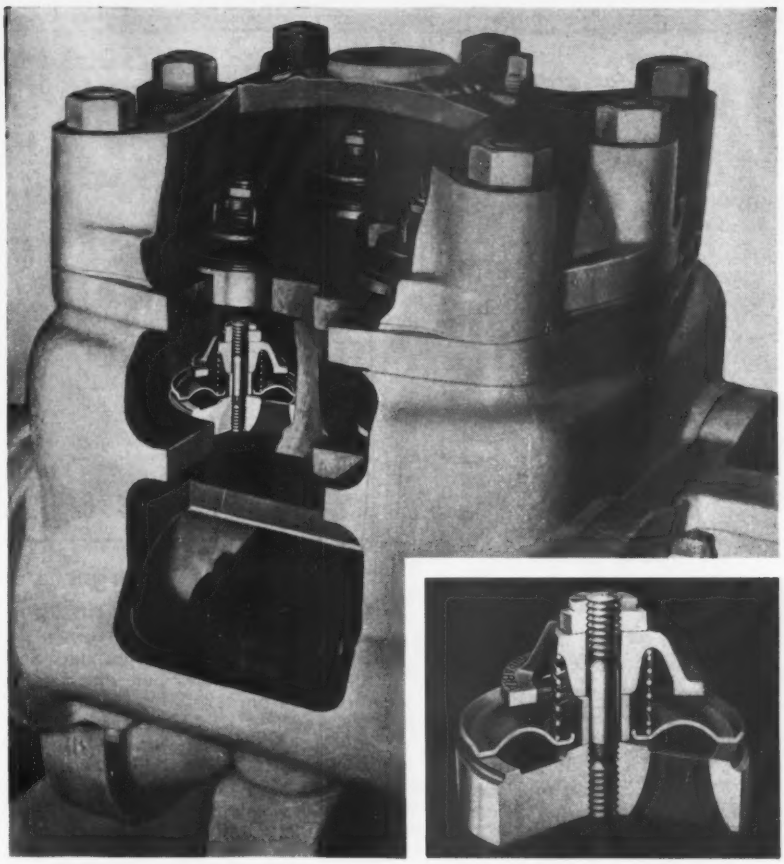
P-I-E Radios in Denver

DENVER—Pacific Intermountain Express has announced installation of a two-way radio communication system to expedite pickup and delivery service in this area. The 15 new mobile radio units installed in P-I-E trucks permit immediate relay of instructions from the company's terminal to drivers in all parts of its service area.

WHITNEY BENCH SHEARS

IN STOCK AT HOWARD SUPPLY COMPANY

... for more details, circle No. 107



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THIS SUPER-SHOVEL, provided by the City of Corona, gave a new twist to recent ground-breaking ceremonies for the L. O. F. Glass Fiber Co. plant in Corona. Sharing the shovel are **Ralph D. Pfiffner,** city manager; **Mayor Francis A. Stearns; Mrs. Kitty Breece,** Chamber of Commerce secretary-manager; **R. H. Barnard,** L. O. F. Glass Fibers' president; and **John A. Morgan,** vice president - general manager of the firm's Pacific Coast division.

Stanco Moves to Larger Quarters in Santa Monica

SANTA MONICA, CALIF.—Now in new and larger quarters at 1666 Ninth St. is Stanco Mfg. & Sales Co., which moved recently from 1932 Pontius Ave., W. Los Angeles.

Stanco is national distributor for three Swedish-manufactured lines: Hiab hydraulic truck cranes, Flygt portable submersible drainers, and Pionjar portable rock drilling and breaking machines.

The new quarters, made necessary by increased business and an expansion program, provide general offices, a display area, service department, stock room and warehouse. A paved parking area adjoins the building.

Head of the company is *Herman Stayner*, president. *Peter Frank* is general manager.

Marine Specialties Is Portland Distributor

PORTLAND—Newly named distributor of the American Marc diesel engines in the Portland area is Marine Specialties of Oregon, Inc., a firm organized within the last year. In addition to handling the marine diesel, manufactured by American Marc Mfg. Co., Inglewood, Calif., the firm also represents Capitol gears, Aeroquip Corp. hose lines and fittings, American Bosch fuel pumps, and similar lines.

President of the Marine Specialities is *Gordon A. Kalk;* vice president, *Ed Mitchell,* and secretary, *Le Roy Skousan.*

Recently appointed sales representative in the Portland area was *Virgil Schmotzer.*

BLACK & DECKER

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1,000 Attend A. O. Smith Demonstration in L. A.

LOS ANGELES—Over 1,000 representatives from the major industries attended the recent display and demonstrations of all A. O. Smith welding machines.

This included the introduction of new models to the A. O. Smith line of a-c.-d-c. inert arc-welding machines, portable liquid-cooled and air-cooled gas driven machines. Also shown was a 1,500 amp. constant potential machine which offers a new concept in multi-arc welding.

On hand from the firm's headquarters in Milwaukee was *A. R. Schneller,* sales manager, welding machines and accessories, Welding Products Division.

Oscar-Paul Corp. Is New L. A. Engineering Firm

LOS ANGELES—The Oscar-Paul Corporation is the name of a company recently formed to design, engineer and fabricate special machinery, tooling and electromechanical devices. Offices and manufacturing facilities are at 5450 Alhambra Ave.

Active principals are *Paul S. McKibben, Oscar Reily* and *George Roddan.* McKibben, vice president and chief engineer, was with Byron Jackson Co., and with Thompson Products' Karl-Douglas division. Reily, who is plant superintendent, and Roddan, vice president for sales, have also been associated with Thompson Products, Inc.

Hyster-Martin Machine Merger Completed

PORTLAND—Completion of the merger of Hyster Corp., Portland, with Martin Machine Co., of Kewaunee, Ill., was announced recently by *Philip S. Hill,* executive vice president of Hyster.

The resulting organization retains the Hyster name and has been incorporated under the laws of Nevada, but the corporate change will not affect operation or locations of factories, according to Hill's announcement. No operational or personnel changes are contemplated, he said.

The Martin firm, which manufactures heavy duty low bed trailers, becomes the Martin Trailer Division of Hyster Co., and will be operated as a part of its tractor equipment division. Distribution of Martin products has always been through Caterpillar Tractor Co.-Hyster dealers. Hyster has been an auxiliary equipment manufacturer for Caterpillar for several years, as has the Martin firm.

The merger created an organization with assets of more than $24,000,000.

Applied Physics Corp. Will Move to Monrovia

MONROVIA, CALIF.—Moving next month to a 50,000-sq. ft. building at 2724 S. Peck Road will be Applied Physics Corp. of Pasadena.

According to *Howard Cary,* president, the move will provide the firm with substantially more space than its present three locations in Pasadena. Applied Physics was the developer of the commercial recording spectrophotometer and also manufactures precision instruments.

Dow Plant Ups Styrofoam Production Capacity 50%

TORRANCE, CALIF.—Capacity for production of Styrofoam has been increased 50% at Dow Chemical Company's plant here, following the recent expansion of facilities. Styrofoam, an expanded form of polystyrene, is used mainly as an electrical and thermal insulating material, as a buoyancy medium, and for decorative purposes.

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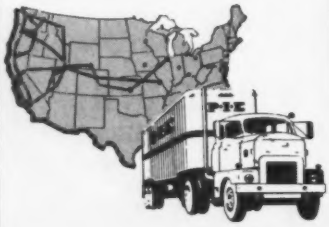

P·I·E
PACIFIC INTERMOUNTAIN EXPRESS

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Chinook Machinery Co. Is New Portland Firm

PORTLAND—Chinook Machinery Co. is the name newly adopted by Portland manufacturers' representative *Edward L. Schiefelbein* to handle representation of the line of hammermills manufactured by J. B. Sedberry, Inc., of Franklin, Tenn., and Tyler, Tex.

Mills in the Jay Bee line are used for grinding substances in many industries including feed and seed milling and processing, sawdust grinding for preparing material for wood by-products, grinding of lava ash for dusting surfaces of new asphalt roads and in shingle manufacture.

The Chinook firm will distribute Jay Bee mills throughout Oregon and Idaho and has taken on *Floyd Shemwell* to promote the new line in this territory.

AIR-MAC Appointment

PORTLAND—Air-Mac, Inc. announces its appointment in the Pacific Northwest as distributor for the Industrial Crane & Hoist Division of Borg-Warner Corp. Air-Mac has branches in Portland, Spokane, Eugene, Tacoma and Yakima, with head offices at Seattle, as distributor of material handling and construction equipment.

Pacific Paper Box Doubles Manufacturing Space

PORTLAND—As part of an expansion program which doubles its manufacturing space, Pacific Paper Box Co., Inc., moved in March from its location at 2700 S.E. Ankeny St. to a 30,000-sq. ft. facility at N.E. Second Ave. and Broadway.

According to *R. W. Faville*, president, the move was necessitated by expanded operations and plans for future growth.

The firm manufactures all types of paper boxes—both set-up and folded—for retailers and manufacturers in Oregon, southwestern Washington, Idaho, Montana and Northern California.

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SIPMHE WESTERN HEAD

New Western Regional Director of the Society of Industrial Packaging and Materials Handling Engineers is **Harold A. Kilmer,** North American Aviation Inc., Downey, Calif. Mr. Kilmer has been president of the Los Angeles chapter of SIPMHE.

WESTERNERS AT WORK...

United States Steel Corp.

. . . has appointed **Lawrence F. Black**, general superintendent of its Geneva Works, to be manager of Utah operations for Columbia-Geneva Steel division and manager of operations of the Columbia Iron Mining Co. **A. E. Terry** was named to succeed Black at Geneva, with **Carl J. Forkum** succeeding Terry as assistant general superintendent. A veteran steelmaker with U. S. Steel for over 34 years, Black has been in his Geneva position since 1950.

Bralco Metals, Inc.

. . . has promoted **Grant M. Hunter** from an outside sales position to that of assistant to **Hunter Keck,** sales manager. A Bralco Metals' employee for 2½ years, Hunter was previously with Mueller Brass Co. Recently his sales work was in the Los Angeles central area.

Calstrip Steel Corp.

J. L. Arthur

. . . has elected **James L. Arthur** vice president of sales, with responsibility for heading up increased sales activity brought about by operation of Calstrips' new Sendzimir mill and the resulting diversification of cold rolled products. Arthur has been with the firm since 1945, serving as sales manager since 1953.

Martin-Decker Corp.

. . . has announced appointment of **Donald E. Yeo** as Western district manager. A veteran of 14 years with the company, he will be responsible for sales and distributor training throughout the 11 Western states and Western Canada.

Ziegler Steel Service Corp.

. . . has a new manager of contractor sales in its Los Angeles division. He is **Warren F. Martin,** who has had 25 years' experience in the construction industry and was formerly with Morrison-Knudsen Co., Inc. and the Worthington Corp. Ziegler recently organized the contractor sales department to specialize in sales to branches of the construction and ready-mix concrete industries.

The Garrett Corp.

J. Lewis

. . . has established a new position —director of manufacturing — and appointed **Jack Lewis** to fill it. Formerly production assistant to manager of Garrett's AiResearch manufacturing division of Arizona, Lewis in his new position will administer corporate manufacturing policies and provide functional guidance to all the firm's divisional manufacturing operations. Associated with Garrett since 1943, Lewis has been in Phoenix since 1951 and will continue his headquarters there.

Hyster Co.

. . . has two recent appointments of interest: **Glenn Herz** has been named chief engineer and **Fred F. Welch,** former manager of the San Francisco dealership, has been named manager of the company's sales and service division. Herz has been with Hyster for

F. F. Welch

G. Herz

12 years, assistant chief engineer for the last five. He replaces **Al Zwald,** who has announced his retirement but will continue as engineering consultant. Welch, in his new post, will have responsibility for all selling activities of the domestic and export sales divisions for both tractor equipment and industrial trucks. He has been with Hyster since 1948.

Flexible Tubing

W. Urquhart

. . . as part of its plant expansion program, has appointed **William S. Urquhart** to be plant superintendent. Urquhart will be in charge of all plant operations in Flexible Tubing's manufacturing program of its numerous flexible ductings. Before coming to Anaheim, Urquhart was employed at Armstrong Cork Co.

Hammerslag Equipment Co.

. . . has added **Bob DeJon** to its staff as head of its engineering and contract department, a division that will handle design and installation of monorails, conveyors and warehouse storage systems. DeJon formerly lived in New England where he operated a material handling engineering service.

CLASSIFIED SECTION

Space is sold as advertisers' inches. All advertisements in this section are ⅛ inch short of contracted space to allow for borders and composition. Rates are $15.50 a column inch. Copy should be sent in by the 25th of preceding month if proofs are required; by the 28th if no proofs are required.

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Philadelphia Gear Works, Inc.

T. F. Hayes

. . . recently appointed **Thomas F. Hayes** Western division manager, with headquarters at 507 E. Olive, Gardena, Calif. In his new post, Hayes will be responsible for all sales west of the Rockies and in charge of servicing and warehousing facilities. He was formerly assistant plant manager of the Lynchburg Works-Virginia Gear and Machine Corp., subsidiary of Philadelphia Gear Works.

Republic Supply Co.

. . . has promoted **Richard M. Chewning,** vice president, to be general manager of its Southern Division, with responsibility for Republic's industrial and oil supply activities in Southern California and Arizona. He will also have Western Nipple Manufacturing Co., a subsidiary, under his jurisdiction. Chewning joined Republic as a warehouse worker in 1941 and recently has held various key posts in the organization. Other recent appointments —all related to sales activities in the division—include the names of **Glenn E. Pitts, Monroe S. Yunker, James C. Russell** and **Charles B. Williams.**

Crown Zellerbach Corp.

. . . has created a new position—Western regional sales manager—in its Multiwall Bag sales division. **J. George Wiley,** formerly South Pacific regional manager in Los Angeles, has been named to the new post, under which the division's activities in the 11 Western states will be consolidated. Wiley will make his office at C-Z San Francisco headquarters.

Lamson Mobilift Corp.

. . . Portland manufacturer of industrial trucks, has appointed **William R. Roberts** to be manager of engineering. During his 20-year association with the firm, Roberts has contributed to the design of trucks, paper mill equipment, motorized valves and other machinery.

Joseph T. Ryerson & Son, Inc.

R. Stafford

. . . has announced the appointment of **Robert T. Stafford** as general manager of its Seattle steel service plant, succeeding **W. Raymond Lockwood,** now manager of the machinery division in Chicago. Stafford joined Ryerson in 1940 and has held various sales positions with the firm since then.

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Here Materials Storage becomes Materials supply without rehandling

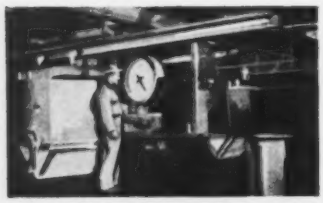
Raw materials for molded goods are stored in these mobile bins or hoppers always ready for immediate delivery to the point of use. The handler rides on a Louden Step-On Type MotoVeyor.

The Ohio Rubber Company, a Division of The Eagle-Picher Company, uses Louden Monorail throughout their molded rubber goods plant at Willoughby, Ohio. One application of unusual interest and cost-saving effectiveness is the Materials Storage Department. This department not only uses but really consists of 2,500 feet of Louden Monorail track. Materials stocked for processing are here stored in mobile hoppers suspended from the trackage in this 90′ x 260′ indoor "monorail railroad yard." Loaded hoppers forming "trains" are made up to supply various materials as required. A Louden MotoVeyor moves them to whatever place the materials are needed, hoppers are dumped automatically, and materials fall directly into mixers on the floor below.

This is just one of the many handling problems that have been solved by Louden engineers. No other handling system permits such a wide diversity of uses as does Monorail. Over one universal handling system, easily installed and easily enlarged as occasion demands, your product can be handled from raw material to the wrapped package without one interruption to the smooth, even flow of production. Handling never becomes rehandling with Monorail.

When you have a materials handling problem or plant problem involving lifting and transporting loads, call on Louden for suggestions. Louden's unparalleled experience and proven engineering leadership combined with Louden's broad line of equipment can save time and mistakes. Write or wire today.

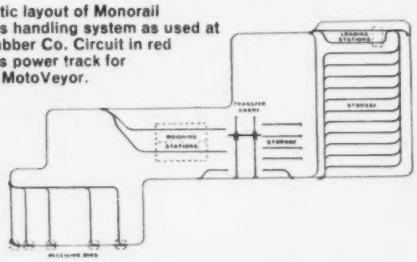
THE LOUDEN MACHINERY COMPANY
8104 Broadway, Fairfield, Iowa
A Subsidiary of Mechanical Handling Systems Inc.



All loaded hoppers are weighed, marked as to contents and ticketed. This ticket provides both automatic inventory control and data for payroll computations.

Material is delivered directly from storage and automatically dumped into receiving bins feeding the mixers on the floor below.

Schematic layout of Monorail materials handling system as used at Ohio Rubber Co. Circuit in red indicates power track for Louden MotoVeyor.



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